TC-FX430/FX433

SERVICE MANUAL

TC-FX430:

US Model
Canadian Model
AEP Model
UK Model

TC-FX433:

US Model

Photo: TC-FX430

SPECIFICATIONS

Tape Transport Mechanism Type	TCM-C80F30B

Recording system 4-track 2-channel stereo
Fast-forward and rewind time
Approx. 100 sec. (with C-60 cassette)
Bias frequency 105 kHz
Signal-to-noise ratio (NAB, at peak level)

DOLBY NR switch / Cassette	OFF	B-TYPE ON	C-TYPEON
TYPE IV (Sony METAL-ES)	58 dB	65 dB	71 dB
TYPE II (Sony UCX)	56dB	63 dB	69 dB
TYPE I (Sony HF-S)	54 dB	61dB	67dB

Total harmonic distortion
1.0% (with Sony METAL-ES cassettes)

Frequency response
DOLBY NR OFF
- With TYPE IV cassette (Sony METAL-ES)
20 - 16,000 Hz
30 - 15,000 Hz (±3 dB)
30 - 13,000 Hz (±3 dB, 0 VU recording)
30 - 15,000 Hz (DIN)
- with TYPE II cassette (Sony UCX)
20 - 15,000 Hz
30 - 14,000 Hz (±3 dB)
30 - 14,000 Hz (DIN)
- With TYPE I cassette (Sony HF-S)
20 - 14,000 Hz
30 - 13,000 Hz (DIN)

Wow and flutter 0.08% WRMS (NAB)
±0.2% (DIN)

Inputs Microphone inputs (phone jacks)
Sensitivity 0.25 mV (−70 dB)
For a low-impedance microphone
Line inputs (phone jacks)
Sensitivity 77.5 mV (−20 dB)
Input impedance 47 kilohms

Outputs Line outputs (phono jacks)
Output level 0.44 V (−5 dB) at load impedance 47 kilohms.
Load impedance over 10 kilohms
Headphone output (stereo phone jack)
Output level −28 dB at a load impedance of 8 ohms

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MICROFILM

STEREO CASSETTE DECK

SONY®

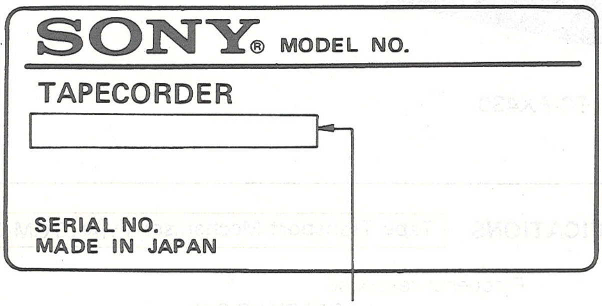
TC

General

Power requirements	120 V ac, 60 Hz (US, Canadian model) 220 V ac, 50/60 Hz (AEP model) 240 V ac, 50 Hz (UK model)
Power consumption	14 watts
Dimensions	Approx. 430 × 105 × 250 mm (w/h/d) (17 × 4¼ × 9⅞ inches) including projecting parts and controls
Weight	Approx. 3.3 kg (7 lbs 5 oz)

MODEL IDENTIFICATION

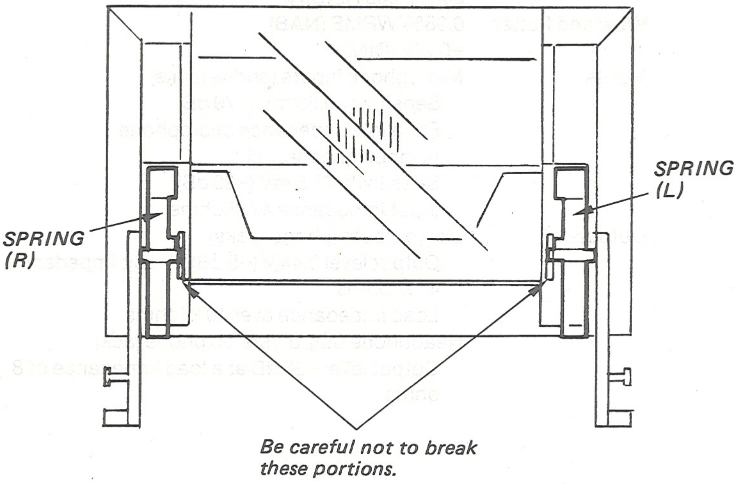
– Specification Label –



US, Canadian model: AC: 120 V 60 Hz 14 W
AEP model: AC: 220 V ~50/60 Hz 14 W
UK model: AC: 240 V ~50/60 Hz 14 W

[Note On Repairing]

- **SPRING L/R**
  Spring (L) and (R) are similar in their shape as shown in figure below. Be careful when installing them.



SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

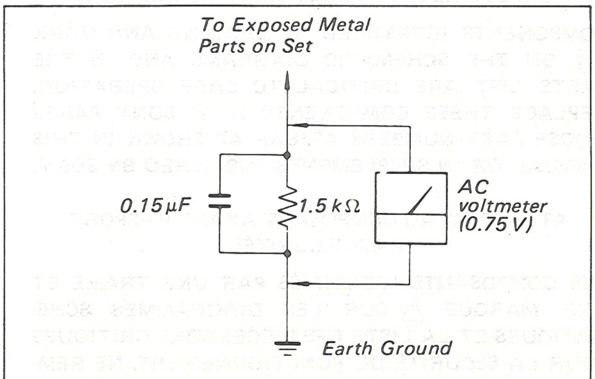


Fig. A. Using an AC voltmeter to check AC leakage.

FUNCTION OF CONTROLS

FRONT PANEL

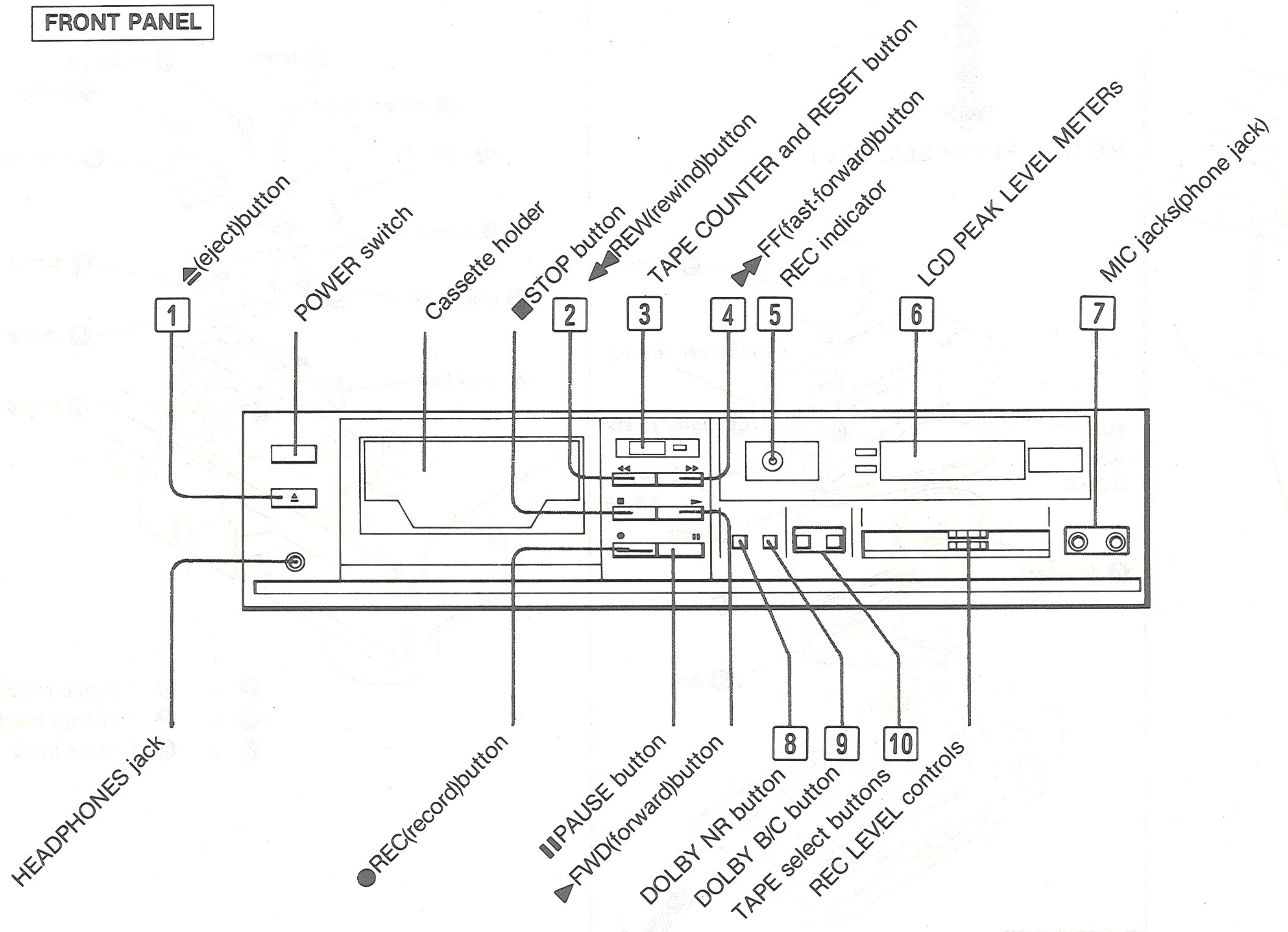
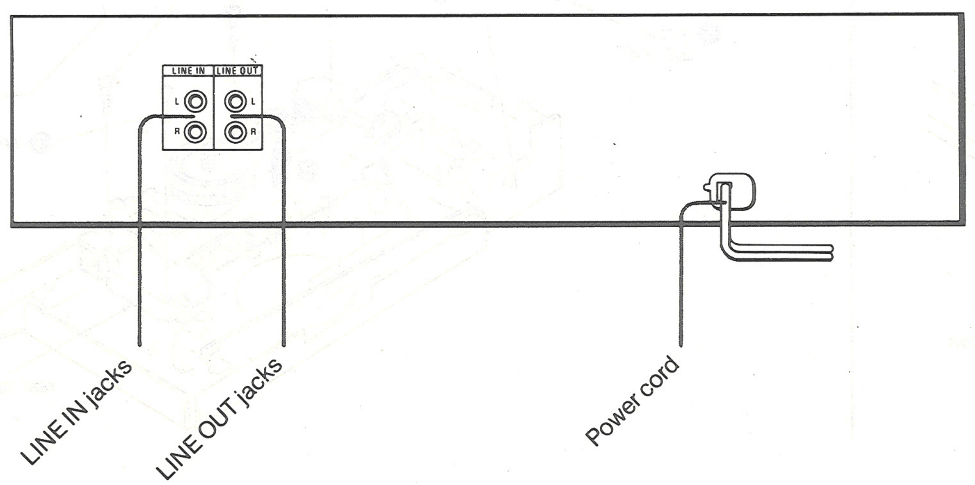

1 ≜(eject)button
POWER switch
Cassette holder
■STOP button
2 ◀◀REW(rewind)button
3 TAPE COUNTER and RESET button
4 ▶▶FF(fast-forward)button
5 REC indicator
6 LCD PEAK LEVEL METERs
7 MIC jacks(phone jack)
HEADPHONES jack
●REC(record)button
❚❚PAUSE button
▶FWD(forward)button
8 DOLBY NR button
9 DOLBY B/C button
10 TAPE select buttons
REC LEVEL controls

Illustration: TC-FX430

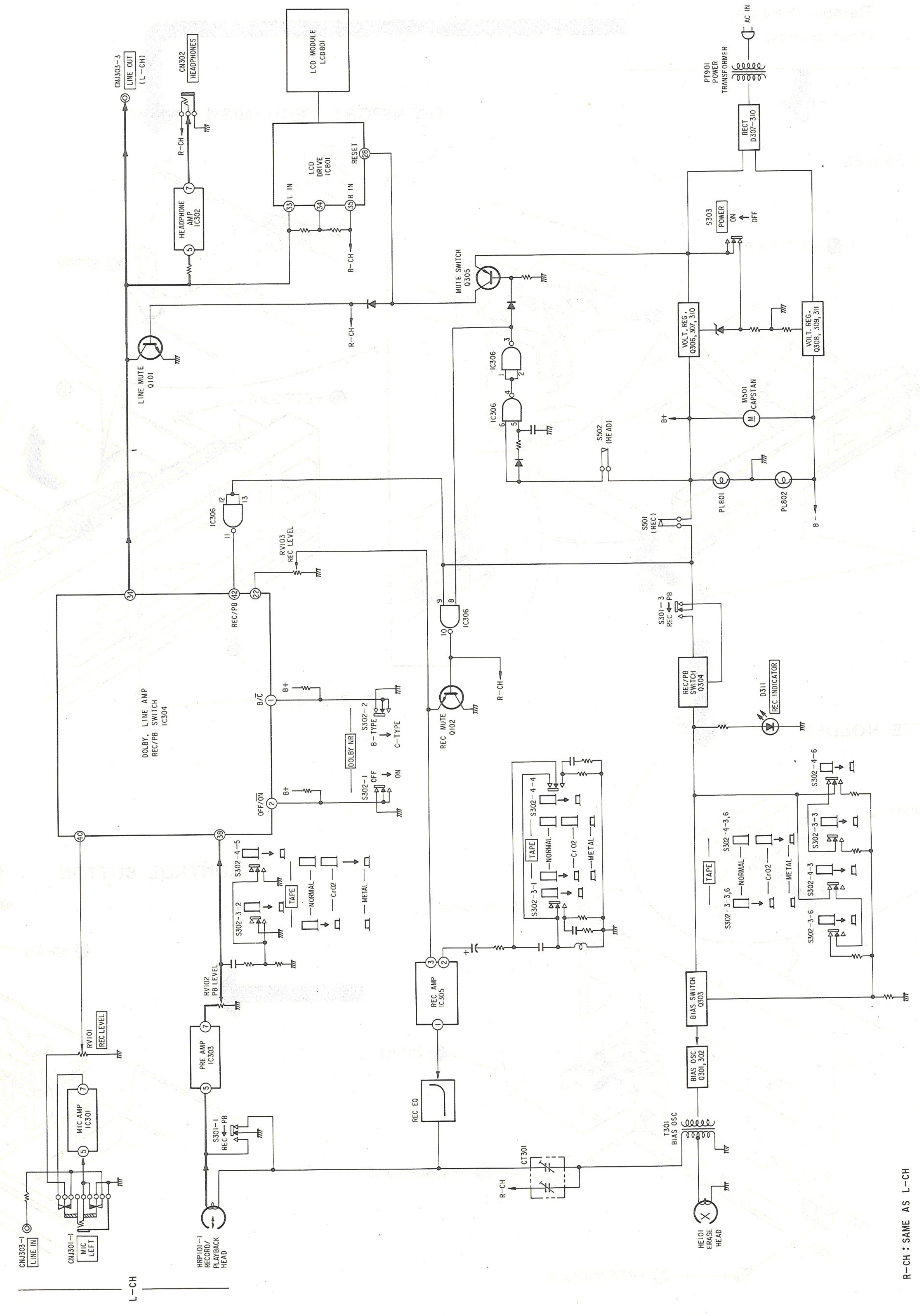
REAR PANEL


LINE IN
LINE OUT
L
R
LINE IN jacks
LINE OUT jacks
Power cord

SECTION 1

OUTLINE

1-1. BLOCK DIAGRAM

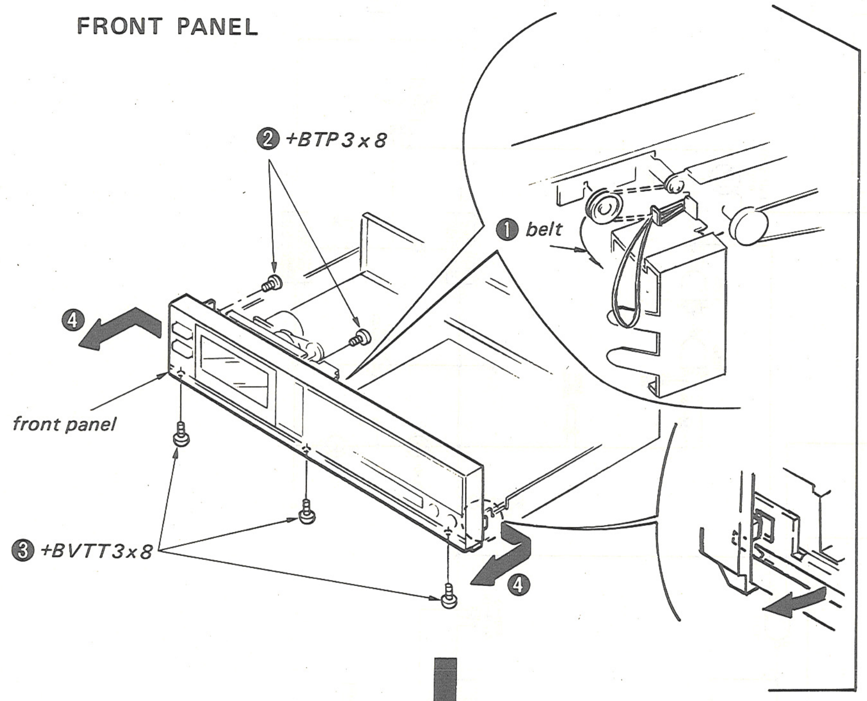

LCD MODULE LCD801
LCD DRIVE IC801
RESET
L IN
R IN
CN302 HEADPHONES
CNJ303-1 LINE OUT (L-CH)
HEADPHONE AMP IC302
R-CH
LINE MUTE Q101
MUTE SWITCH Q305
IC306
S502 (HEAD)
PT901 POWER TRANSFORMER
AC IN
RECT D307-310
S303 POWER ON OFF
VOLT REG. Q305,307,310
VOLT REG. Q308,309,311
M501 CAPSTAN
B+
B-
PL801
PL802
S501 (REC)
RV103 REC LEVEL
DOLBY, LINE AMP REC/PB SWITCH IC304
REC/PB
B/C
OFF/ON
REC MUTE Q102
S302-2 B-TYPE C-TYPE
DOLBY NR
S302-1 OFF ON
S301-3 REC PB
REC/PB SWITCH Q304
D311 REC INDICATOR
TAPE
NORMAL
CrO2
METAL
S302-4-5
S302-3-2
S302-4-4
S302-3-1
S302-4-6
S302-3-3
S302-4-3,6
S302-3-3,6
S302-4-3
S302-3-6
RV102 PB LEVEL
PRE AMP IC303
REC AMP IC305
REC EQ
BIAS SWITCH Q303
BIAS OSC Q301,302
T301 BIAS OSC
CT301
HE101 ERASE HEAD
HRP101-1 RECORD/PLAYBACK HEAD
S301-1 REC PB
RV101 REC LEVEL
MIC AMP IC301
CNJ303-1 LINE IN
CNJ301-1 MIC LEFT
L-CH
R-CH : SAME AS L-CH

SECTION 2
DISASSEMBLY

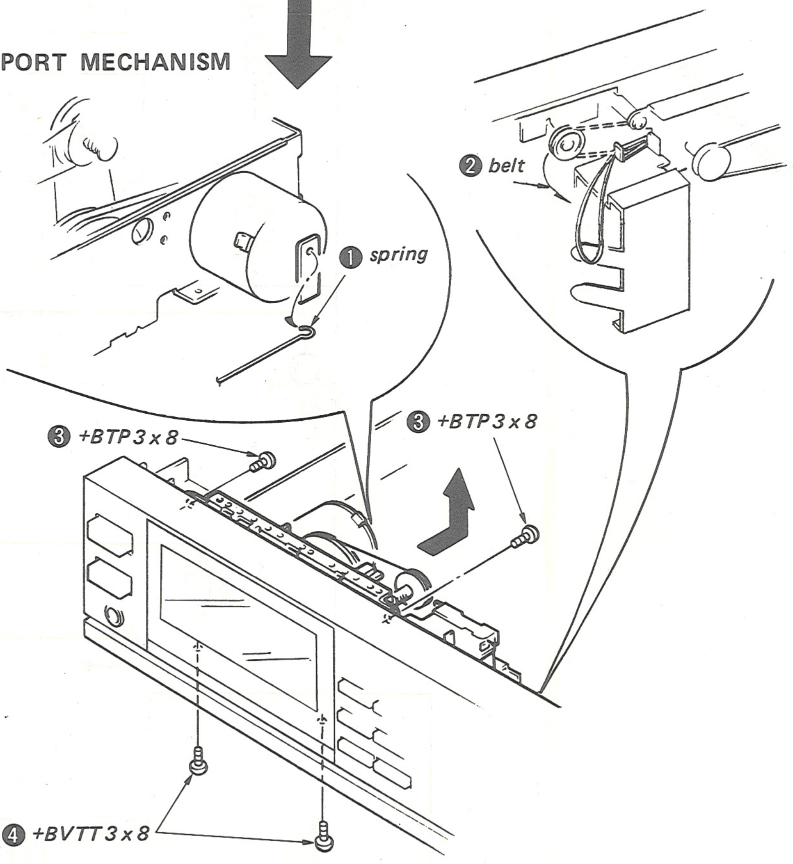
- Follow the disassembly procedure in the numerical order given.

Remove the case.
(four screws)

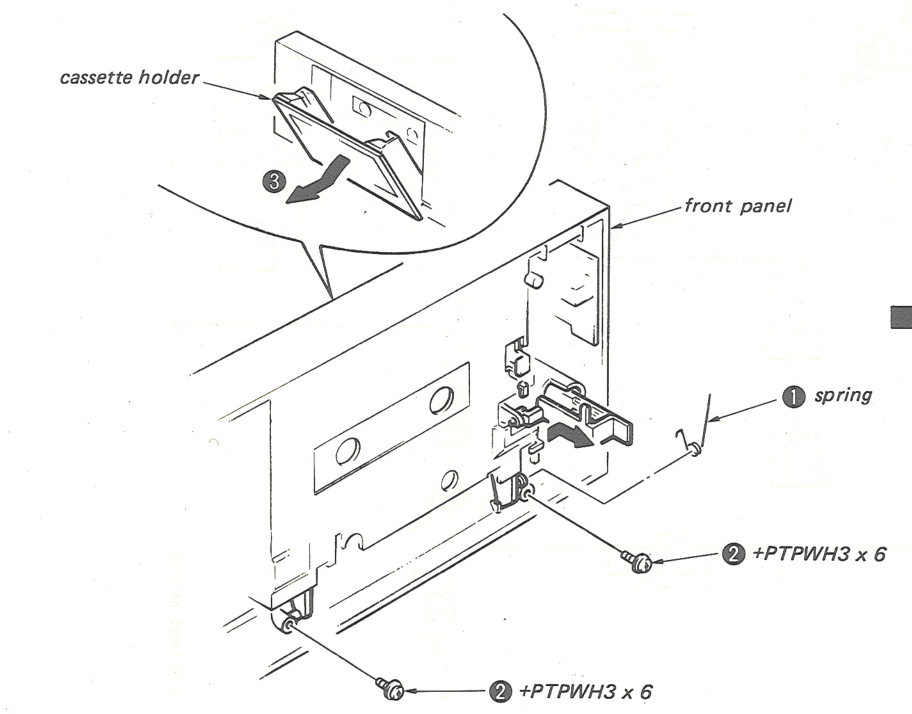
FRONT PANEL


❷ +BTP3x8
❶ belt
❹
front panel
❸ +BVTT3x8
❹

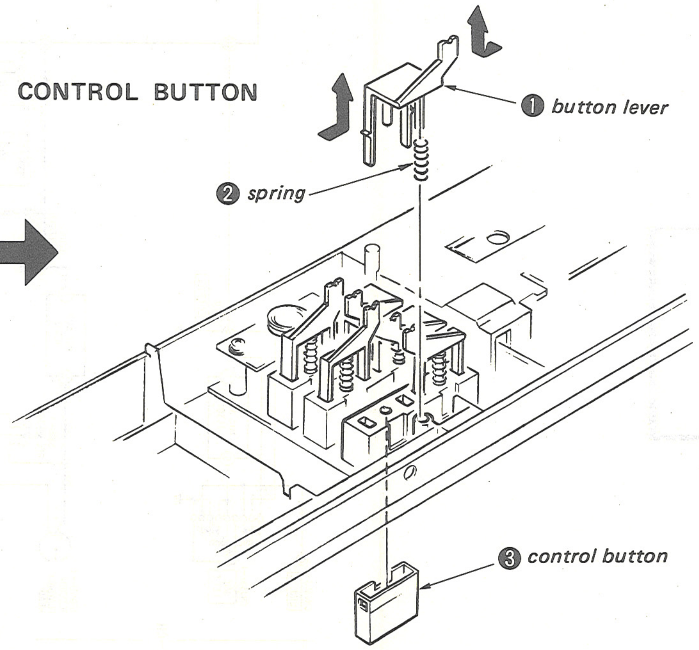
TRANSPORT MECHANISM


❶ spring
❷ belt
❸ +BTP3x8
❸ +BTP3x8
❹ +BVTT3x8

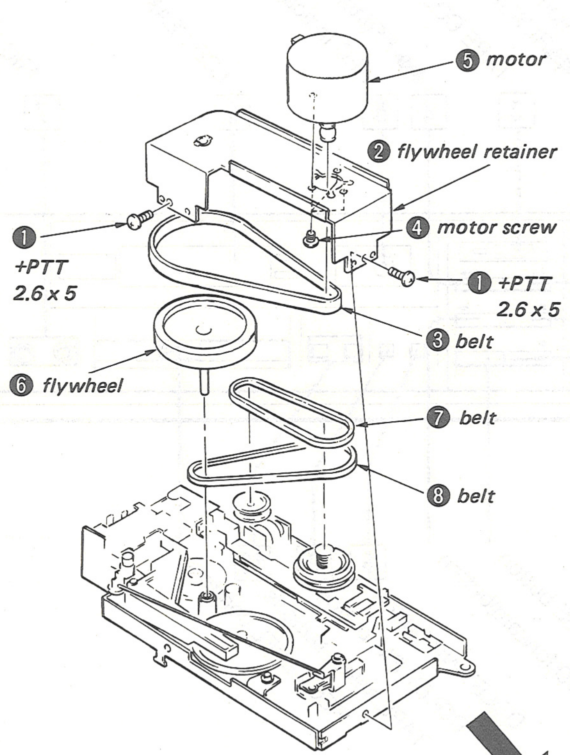
CASSETTE HOLDER


cassette holder
❸
front panel
❶ spring
❷ +PTPWH3 x 6
❷ +PTPWH3 x 6

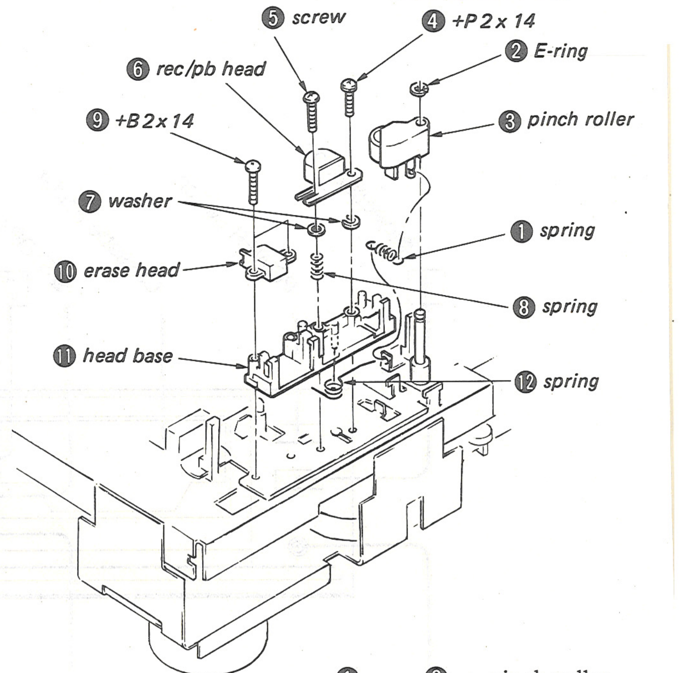
CONTROL BUTTON


❶ button lever
❷ spring
❸ control button

MOTOR, FLYWHEEL, BELT

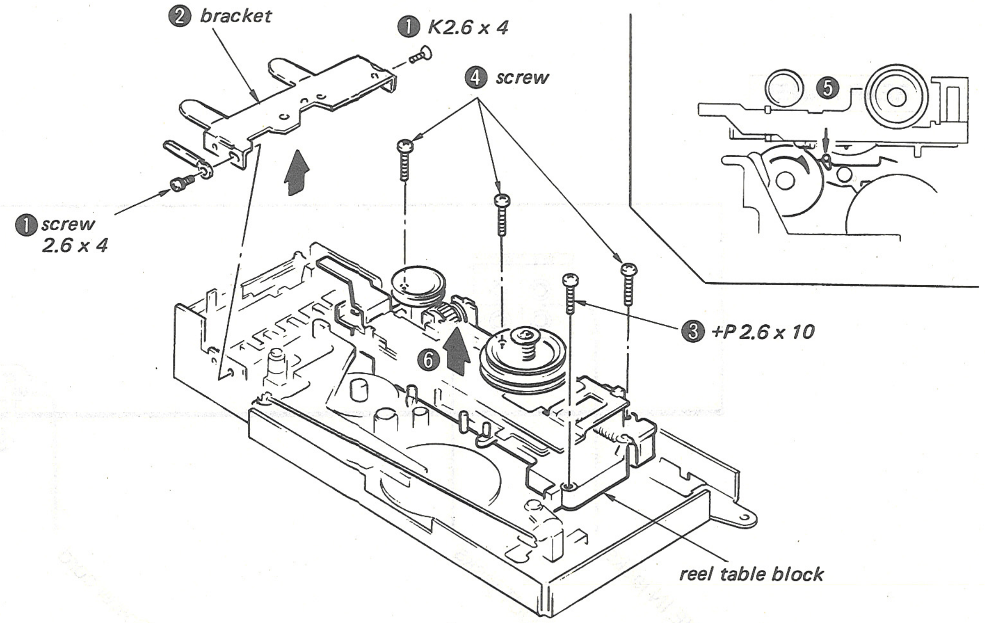

❺ motor
❷ flywheel retainer
❹ motor screw
❶ +PTT 2.6 x 5
❶ +PTT 2.6 x 5
❸ belt
❻ flywheel
❼ belt
❽ belt

REC/PB HEAD, ERASE HEAD, PINCH ROLLER


❺ screw
❹ +P2x14
❷ E-ring
❻ rec/pb head
❸ pinch roller
❾ +B2x14
❼ washer
❶ spring
❿ erase head
❽ spring
⑪ head base
⑫ spring

❶ – ❸ : pinch roller
❹ – ❽ : rec/pb head
❾ – ❿ : erase head

REEL TABLE BLOCK


❷ bracket
❶ K2.6 x 4
❹ screw
❶ screw 2.6 x 4
❺
❻
❸ +P2.6 x 10
reel table block

SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

No mechanical adjustments applied to this unit.

- Torque Measurement

Mode	Torque Meter	Torque
FWD	CQ-102C	40 to 70 g·cm (0.55 to 0.97 oz·inch)
FF	CQ-201B	70 to 150 g·cm (0.97 to 2.07 oz·inch)
REW	CQ-201B	70 to 150 g·cm (0.97 to 2.07 oz·inch)
FWD back tension	CQ-102C	2 to 6 g·cm (0.028 to 0.083 oz·inch)

3-2. ELECTRICAL ADJUSTMENTS

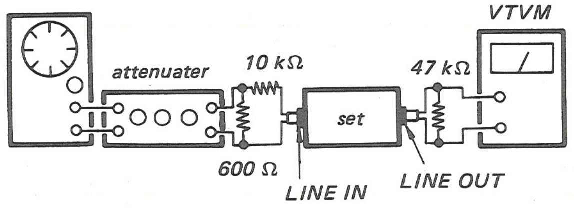
Note: The adjustment should be performed in the order given in this service manual.
The adjustments should be performed for both L-CH and R-CH.

- Set the TAPE switches according to the tape as follows.

Tape	Tape Switch
CS-17	TYPE I NORMAL
CS-26	TYPE II CrO₂
CS-40	TYPE IV METAL

- Switches and controls should be set as follows unless otherwise specifed.
  DOLBY NR switch: OFF
  TAPE SELECT switch: TYPE I NORMAL
- Standard Record:
  Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

— Record Mode —


VTVM
attenuater
10 kΩ
47 kΩ
set
600 Ω
LINE IN
LINE OUT

Standard Input Level

	MIC	LINE IN
source impedance	300 Ω	10 kΩ
input level	0.77 mV (−60 dB)	0.25 V (−10 dB)

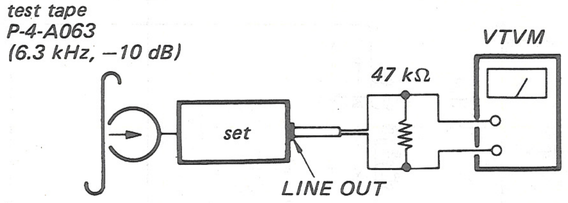
Standard Output Level

	HEADPHONES	LINE OUT
load impedance	8 Ω	47 kΩ
output level	31 mV (−28 dB)	0.435 V (−5 dB)

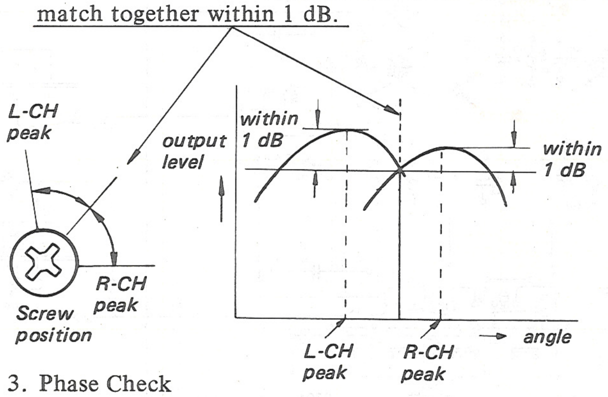
Record/playback Head Azimuth Adjustment

Procedure:

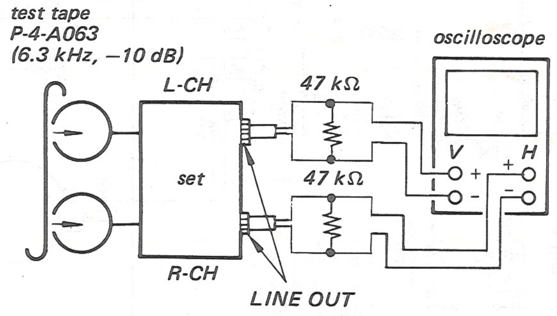
1. Mode: playback

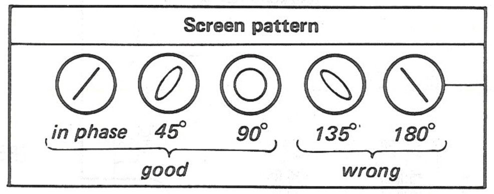

test tape
P-4-A063
(6.3 kHz, −10 dB)
VTVM
47 kΩ
set
LINE OUT

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.

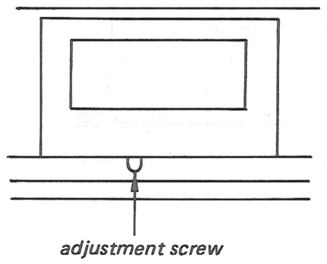


3. Phase Check
   Mode: playback


test tape
P-4-A063
(6.3 kHz, −10 dB)
oscilloscope
L-CH
47 kΩ
set
47 kΩ
V
H
R-CH
LINE OUT


Screen pattern
in phase
45°
90°
135°
180°
good
wrong

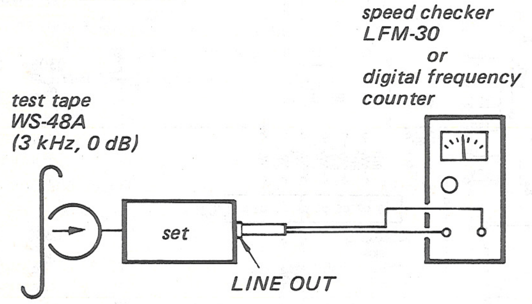
Adjustment Location:


adjustment screw

Tape Speed Adjustment

Procedure:

Mode: playback

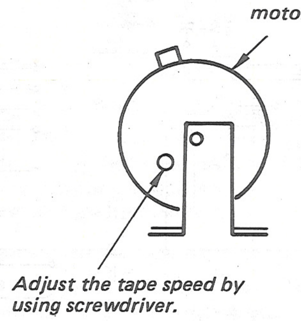

speed checker
LFM-30
or
digital frequency counter
test tape
WS-48A
(3 kHz, 0 dB)
set
LINE OUT

Specification:

Speed checker	Digital frequency counter
±0.3%	2,990 to 3,010 Hz

Frequency difference between the beginning and the end of the tape should be within 0.8% (25 Hz).

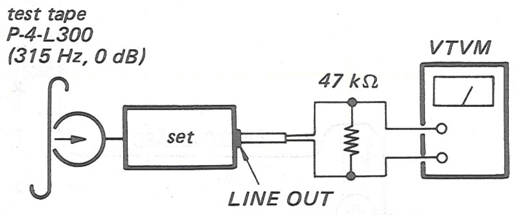
Adjustment Location:


motor
Adjust the tape speed by using screwdriver.

Playback Level Adjustment

Procdure:

Mode: playback


test tape
P-4-L300
(315 Hz, 0 dB)
VTVM
47 kΩ
set
LINE OUT

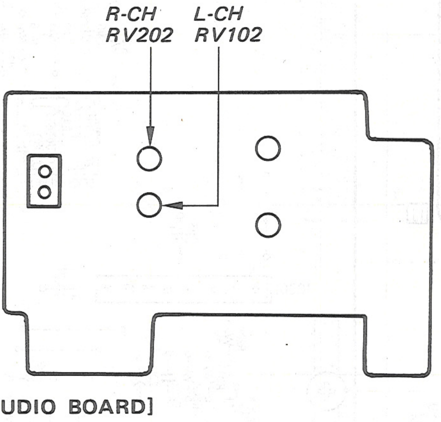
Specification:

LINE OUT level: 0.46 to 0.41 V
(−4.5 to −5.5 dB)

Level difference between channels:
less than 0.5 dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location:


R-CH
RV202
L-CH
RV102
[AUDIO BOARD]

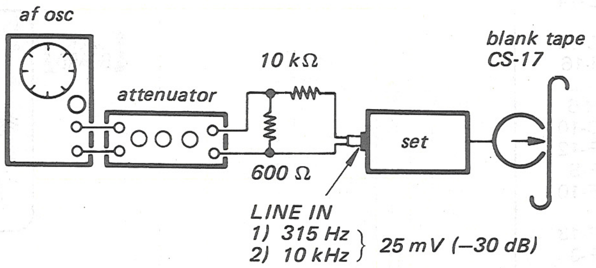
Record Bias Adjustment

Setting:

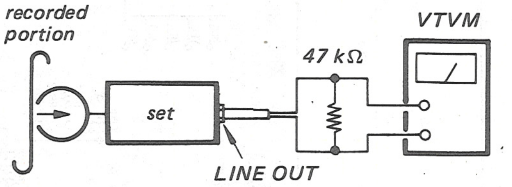
REC LEVEL control: standard record (See page 7)

Procedure:

1. Mode: record


af osc
attenuator
10 kΩ
600 Ω
set
blank tape
CS-17
LINE IN
1) 315 Hz
2) 10 kHz
25 mV (–30 dB)

2. Mode: playback

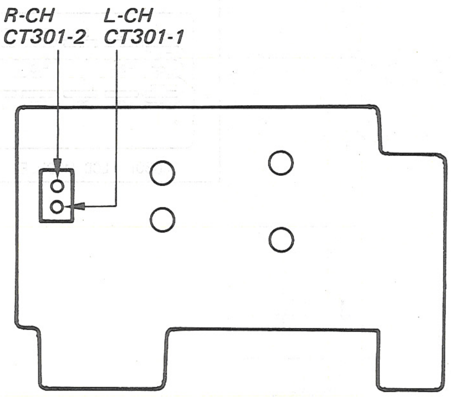

recorded
portion
set
47 kΩ
VTVM
LINE OUT

Play back the tape recorded in step 1. Confirm that the LINE OUT level of 10 kHz signal is 0 dB relative to that of 315 Hz. If not, adjust the CT301-1 (L-CH), CT301-2 (R-CH) and repeat steps 1 and 2.

Specification:

0 ±0.5 dB

Adjustment Location:


R-CH
CT301-2
L-CH
CT301-1

[AUDIO BOARD]

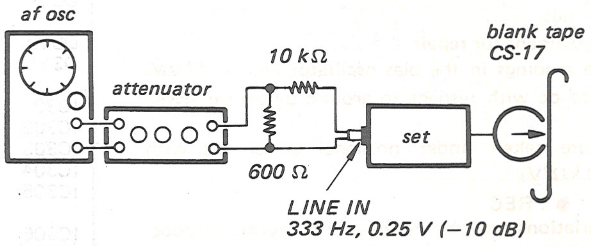
Record Level Adjustment

Setting:

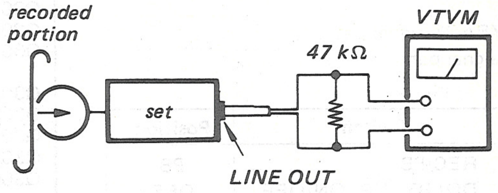
REC LEVEL control: standard record (See page 7)

Procedure:

1. Mode: record


af osc
attenuator
10 kΩ
600 Ω
set
blank tape
CS-17
LINE IN
333 Hz, 0.25 V (–10 dB)

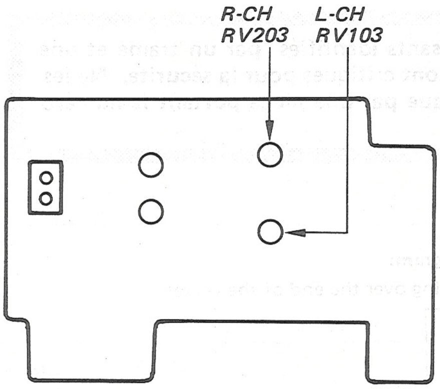
2. Mode: playback


recorded
portion
set
47 kΩ
VTVM
LINE OUT

Specification:

LINE OUT level: 0.41 to 0.46 V (–5.5 to –4.5 dB)

Adjustment Location:


R-CH
RV203
L-CH
RV103

[AUDIO BOARD]

SECTION 4
DIAGRAMS

4-1. MOUNTING DIAGRAM

- See page 16 for Semiconductor Lead Layouts.

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- Components for right channel have same values as for left channel. Reference numbers are coded from
- △ : internal component.
- ▬ : B+ bus.
- ▬ ▬ ▬ : B− bus.
- ☐ : adjustment for repair.
- AC voltage readings in the bias oscillator with a VTVM.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).

  ▶ : FWD ● : REC
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground by using oscilloscope. Voltage variations may be noted due to normal production tolerances.
- ⟶ : PLAYBACK signal path.
- ⇨ : REC signal path.
- Switch

Ref. No.	Switch	Position
S301	REC/PB	PB
S302-1	DOLBY NR ON/OFF	OFF
S302-2	DOLBY NR B/C	B
S302-3, 4	TAPE	NORMAL
S303	POWER	OFF
S501	REC	OFF
S502	HEAD	OFF

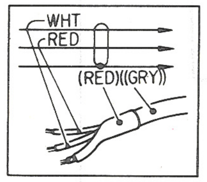
Ref. No.	Location
D300	B-12
D301	F-14
D302	F-15
D303	G-13
D304	G-13
D305	C-7
D306	B-8
D307	B-14
D308	C-15
D309	C-14
D310	C-15
D311	J-16
IC301	H-6
IC302	C-10
IC303	F-12
IC304	F-8
IC305	F-10
IC306	F-13
IC801	F-3
Q101	C-8
Q102	F-10
Q201	C-8
Q202	E-10
Q301	D-13
Q302	D-14
Q303	D-12
Q304	F-15
Q305	B-8
Q306	B-11
Q307	B-11
Q308	C-11
Q309	C-11
Q310	B-12
Q311	C-12

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

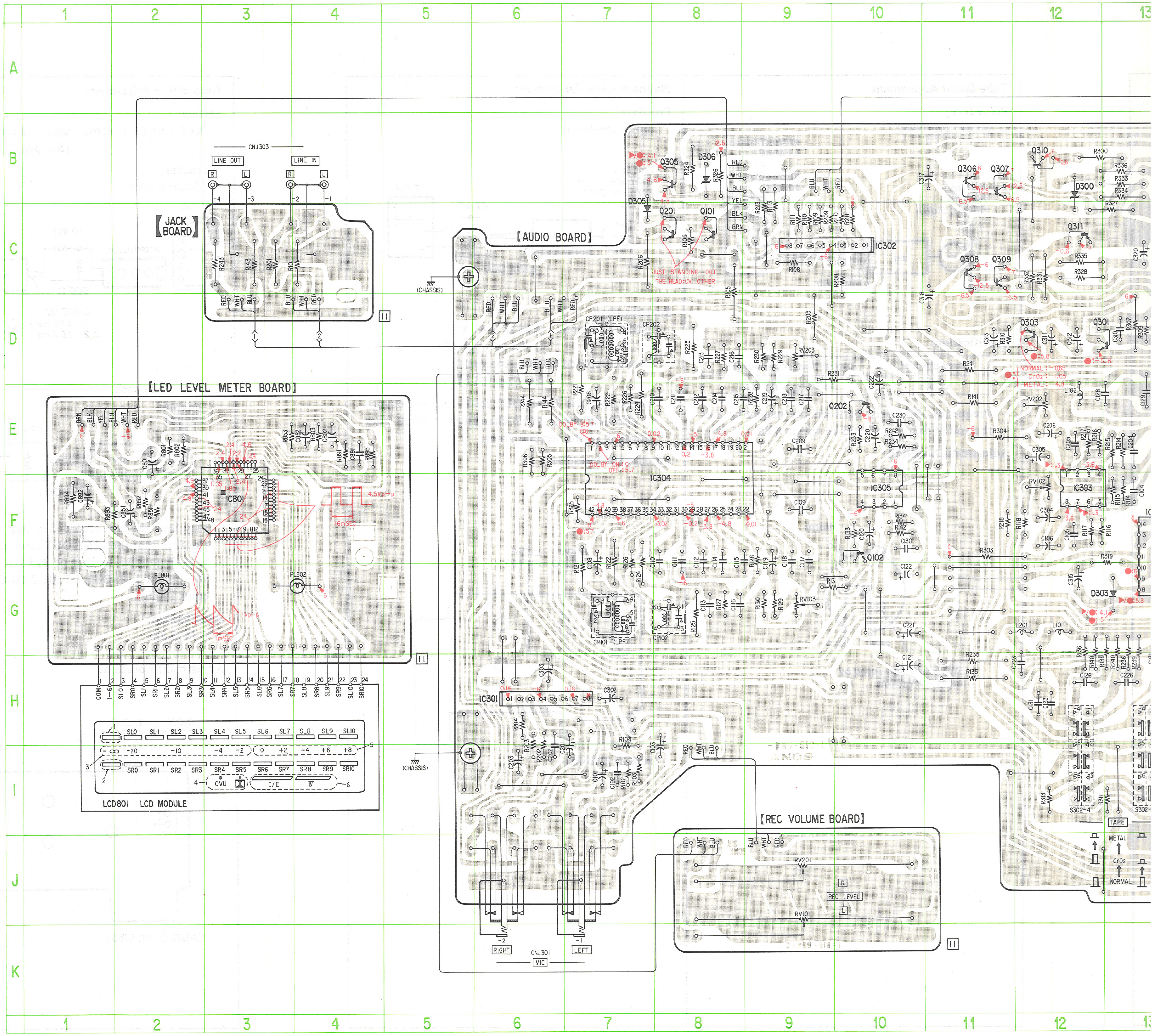
Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

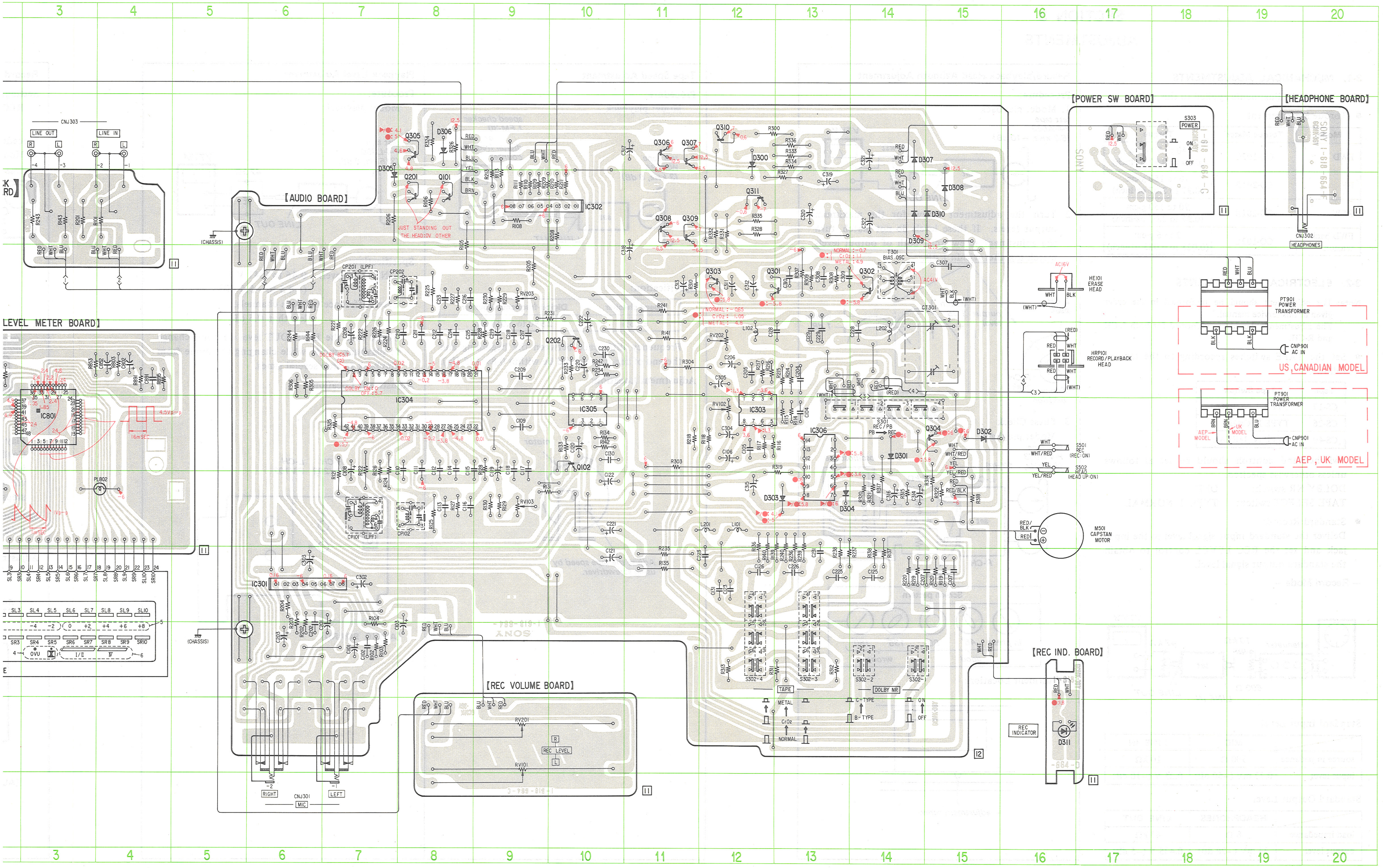
Note on Mounting Diagram:

- Color code or sleeving over the end of the jacket.


WHT
RED
(RED)(GRY)

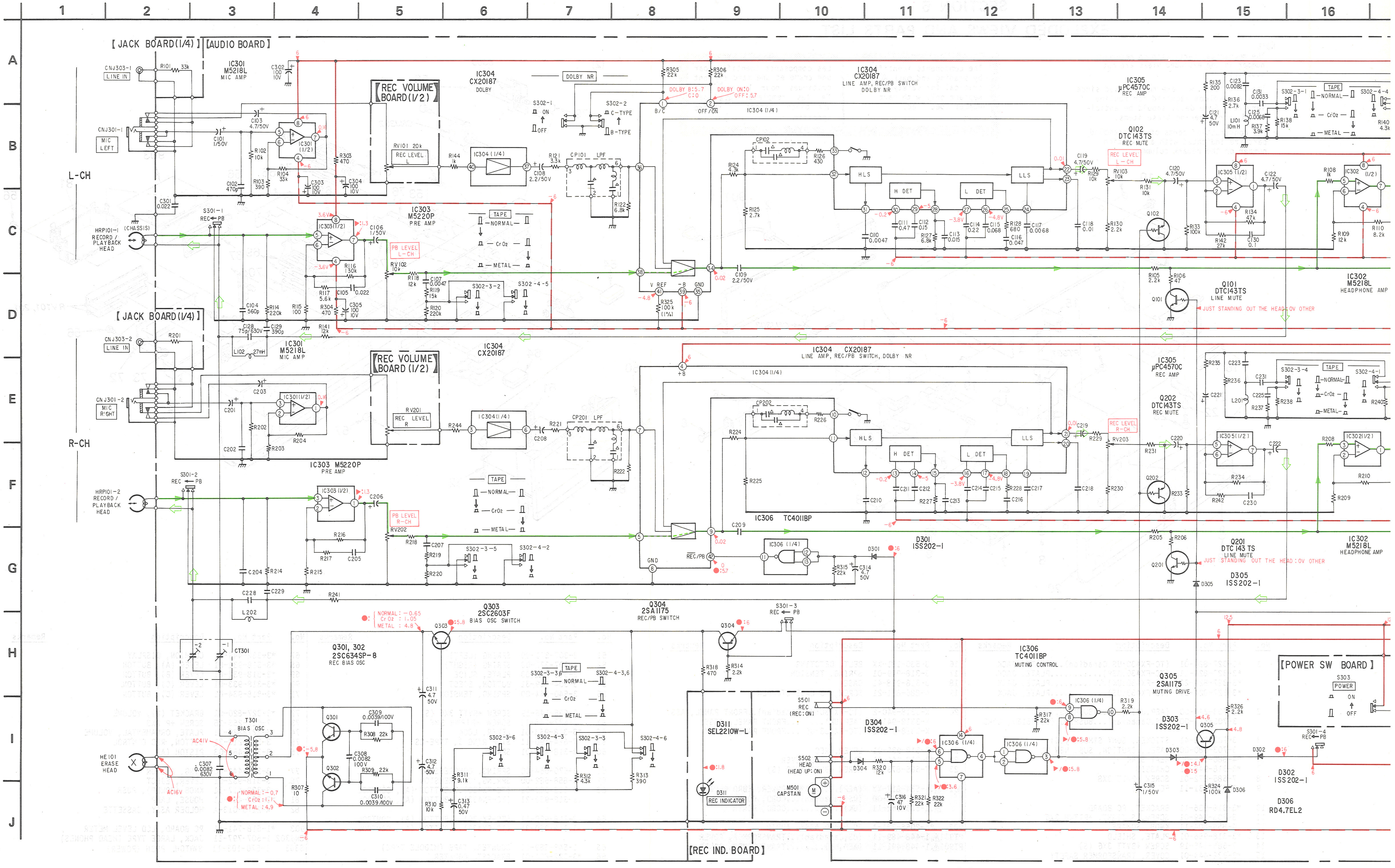
- o—— : parts extracted from the component side.
- [ ]→ : indicates side identified with part number.

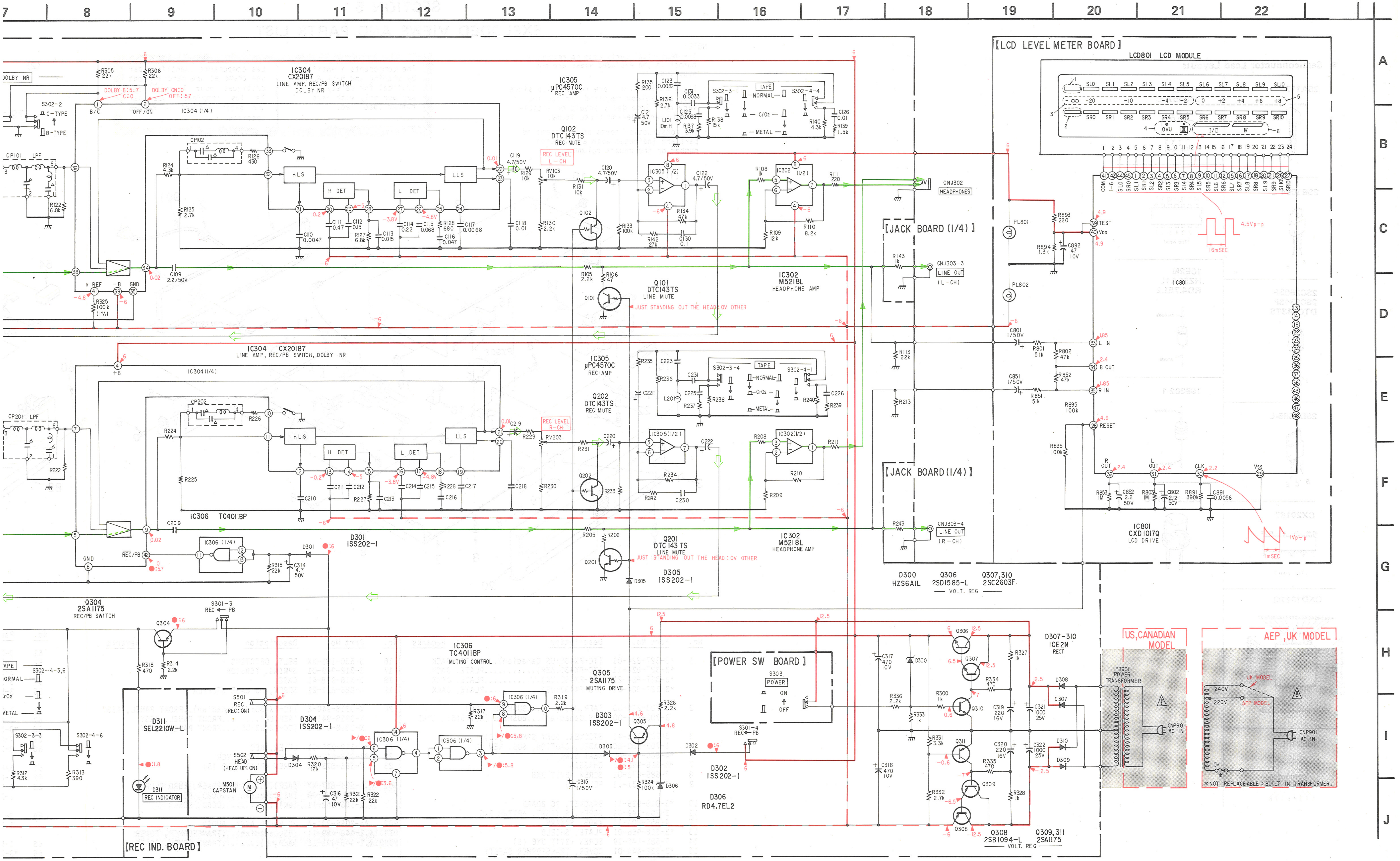

1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
G
H
I
J
K
CNJ303
LINE OUT
LINE IN
R
L
JACK BOARD
(CHASSIS)
AUDIO BOARD
JUST STANDING OUT THE HEAD:OV OTHER
IC302
IC304
IC305
IC303
IC301
Q305
Q201
Q101
Q306
Q307
Q310
Q311
Q308
Q309
Q303
Q301
Q202
Q102
D305
D306
D300
D303
CP201 (LPF)
CP202
CP101 (LPF)
CP102
RV203
RV202
RV103
RV102
L201
L101
L102
NORMAL : 0.65
CrO2 : 1.05
METAL : 4.8
DOLBY ON:0 OFF:5.7
LED LEVEL METER BOARD
IC801
PL801
PL802
16mSEC
4.5Vp-p
1Vp-p
1mSEC
COM
LCD801 LCD MODULE
SL0
SL1
SL2
SL3
SL4
SL5
SL6
SL7
SL8
SL9
SL10
SR0
SR1
SR2
SR3
SR4
SR5
SR6
SR7
SR8
SR9
SR10
-20
-10
-4
-2
0
+2
+4
+6
+8
0VU
I/II
IV
REC VOLUME BOARD
RV201
RV101
REC LEVEL
RIGHT
LEFT
CNJ301
MIC
S302-4
S302-3
TAPE
METAL
CrO2
NORMAL


[AUDIO BOARD]
[POWER SW BOARD]
[HEADPHONE BOARD]
LEVEL METER BOARD]
[REC VOLUME BOARD]
[REC IND. BOARD]
CNJ303
LINE OUT
LINE IN
(CHASSIS)
CNJ301
MIC
RIGHT
LEFT
IC301
IC302
IC303
IC304
IC305
IC306
IC801
CP201 (LPF)
CP202
CP101 (LPF)
CP102
RV201
RV101
REC LEVEL
RV202
RV102
RV203
RV103
JUST STANDING OUT
THE HEAD:0V OTHER
NORMAL : -0.7
CrO2 : 1.1
METAL : 4.9
NORMAL : 0.65
CrO2 : 1.05
METAL : 4.8
DOLBY ON : 0
OFF : 5.7
T301
BIAS OSC
CT301
HE101
ERASE
HEAD
HRP101
RECORD/PLAYBACK
HEAD
S301
REC/PB
S501
REC
(REC:ON)
S502
HEAD
(HEAD UP:ON)
M501
CAPSTAN
MOTOR
S303
POWER
ON
OFF
CNJ302
HEADPHONES
PT901
POWER
TRANSFORMER
CNP901
AC IN
US, CANADIAN MODEL
AEP MODEL
UK MODEL
AEP, UK MODEL
AC16V
AC41V
TAPE
METAL
CrO2
NORMAL
DOLBY NR
C-TYPE
B-TYPE
ON
OFF
S302-1
S302-2
S302-3
S302-4
REC
INDICATOR
D311
PL802
16mSEC
1mSEC
SONY
1-618-684-

4-2. SCHEMATIC DIAGRAM

• See page 10 for notes.


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J
[JACK BOARD(1/4)]
[AUDIO BOARD]
L-CH
R-CH
CNJ303-1 LINE IN
CNJ301-1 MIC LEFT
CNJ303-2 LINE IN
CNJ301-2 MIC R'GHT
HRP101-1 RECORD / PLAYBACK HEAD
HRP101-2 RECORD / PLAYBACK HEAD
HE101 ERASE HEAD
(CHASSIS)
IC301 M5218L MIC AMP
[REC VOLUME BOARD(1/2)]
RV101 20k REC LEVEL L
RV201 REC LEVEL R
IC303 M5220P PRE AMP
PB LEVEL L-CH
PB LEVEL R-CH
IC304 CX20187 DOLBY
IC304 CX20187 LINE AMP, REC/PB SWITCH DOLBY NR
IC304 CX20187 LINE AMP, REC/PB SWITCH, DOLBY NR
DOLBY NR
S302-1 ON OFF
S302-2 C-TYPE B-TYPE
DOLBY B: 5.7 C: 0
DOLBY ON: 0 OFF: 5.7
B/C
OFF/ON
CP101 LPF
CP201 LPF
HLS
H DET
L DET
LLS
V REF
-B
GND
+B
REC/PB
TAPE
NORMAL
CrO2
METAL
S301-1 REC ← PB
S301-2 REC ← PB
S301-3 REC ← PB
S301-4 REC ← PB
IC305 μPC4570C REC AMP
Q102 DTC143TS REC MUTE
Q202 DTC143TS REC MUTE
REC LEVEL L-CH
REC LEVEL R-CH
Q101 DTC143TS LINE MUTE
Q201 DTC 143 TS LINE MUTE
JUST STANDING OUT THE HEAD: 0V OTHER
IC302 M5218L HEADPHONE AMP
IC306 TC4011BP
IC306 TC4011BP MUTING CONTROL
D301 1SS202-1
D305 1SS202-1
D303 1SS202-1
D304 1SS202-1
D302 1SS202-1
D306 RD4.7EL2
Q303 2SC2603F BIAS OSC SWITCH
Q304 2SA1175 REC/PB SWITCH
Q301, 302 2SC634SP-8 REC BIAS OSC
T301 BIAS OSC
CT301
NORMAL: -0.65 CrO2: 1.05 METAL: 4.8
NORMAL: -0.7 CrO2: 1.1 METAL: 4.9
AC4IV
AC16V
D311 SEL2210W-L
D311 REC INDICATOR
[REC IND. BOARD]
S501 REC (REC: ON)
S502 HEAD (HEAD UP: ON)
M501 CAPSTAN
Q305 2SA1175 MUTING DRIVE
[POWER SW BOARD]
S303 POWER ON OFF


7
8
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11
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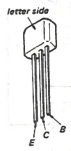
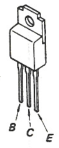
14
15
16
17
18
19
20
21
22
A
B
C
D
E
F
G
H
I
J
IC304 CX20187 LINE AMP, REC/PB SWITCH DOLBY NR
IC305 µPC4570C REC AMP
Q102 DTC143TS REC MUTE
REC LEVEL L-CH
REC LEVEL R-CH
IC302 M5218L HEADPHONE AMP
Q101 DTC143TS LINE MUTE
JUST STANDING OUT THE HEAD : 0V OTHER
CNJ302 HEADPHONES
[JACK BOARD (1/4)]
CNJ303-3 LINE OUT (L-CH)
CNJ303-4 LINE OUT (R-CH)
[LCD LEVEL METER BOARD]
LCD801 LCD MODULE
IC801 CXD1017Q LCD DRIVE
TEST
RESET
L IN
R IN
B OUT
CLK
Vss
4.5Vp-p
16mSEC
1Vp-p
1mSEC
IC304 CX20187 LINE AMP, REC/PB SWITCH, DOLBY NR
IC305 µPC4570C REC AMP
Q202 DTC143TS REC MUTE
Q201 DTC143TS LINE MUTE
IC302 M5218L HEADPHONE AMP
IC306 TC4011BP
D301 ISS202-I
D305 ISS202-I
Q304 2SA1175 REC/PB SWITCH
S301-3 REC ← PB
IC306 TC4011BP MUTING CONTROL
Q305 2SA1175 MUTING DRIVE
D304 ISS202-I
D303 ISS202-I
D302 ISS202-I
D306 RD4.7EL2
D311 SEL2210W-L
REC INDICATOR
[REC IND. BOARD]
S501 REC (REC:ON)
S502 HEAD (HEAD UP:ON)
M501 CAPSTAN
[POWER SW BOARD]
S303 POWER
ON
OFF
S301-4 REC ← PB
D300 HZS6AIL
Q306 2SD1585-L
Q307,310 2SC2603F
VOLT. REG
D307-310 10E2N RECT
Q308 2SB1094-L
Q309,311 2SA1175
VOLT. REG
US,CANADIAN MODEL
PT901 POWER TRANSFORMER
CNP901 AC IN
AEP ,UK MODEL
UK MODEL
AEP MODEL
240V
220V
* NOT REPLACEABLE : BUILT IN TRANSFORMER.
HLS
H DET
L DET
LLS
TAPE
NORMAL
CrO2
METAL
DOLBY NR
S302-2
C-TYPE
B-TYPE
CP101 LPF
CP201 LPF
DOLBY B:5.7 C:0
DOLBY ON:0 OFF:5.7

Semiconductor Lead Layouts

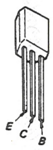
2SA1175


letter side
E
C
B

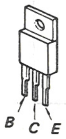
2SB1094-L



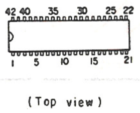
2SC2603F
2SC634SP
DTC143TS



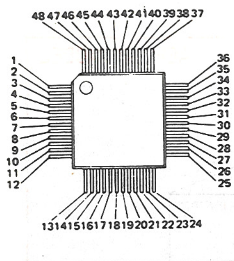
2SD1585-L



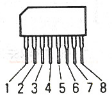
CX20187


42 40 35 30 25 22
1 5 10 15 21
(Top view)

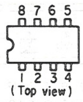
CXD1017Q


48 47 46 45 44 43 42 41 40 39 38 37
1 2 3 4 5 6 7 8 9 10 11 12
36 35 34 33 32 31 30 29 28 27 26 25
13 14 15 16 17 18 19 20 21 22 23 24

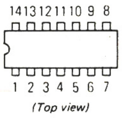
M5218L



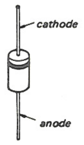
M5220P
μPC4570C


8 7 6 5
1 2 3 4
(Top view)

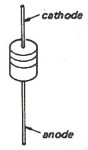
TC4011BP


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

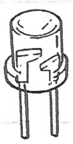
10E2N
HZS6A1L
RD4.7EL2


cathode
anode

1SS202-1


cathode
anode

SEL2210W-C



SECTION 5

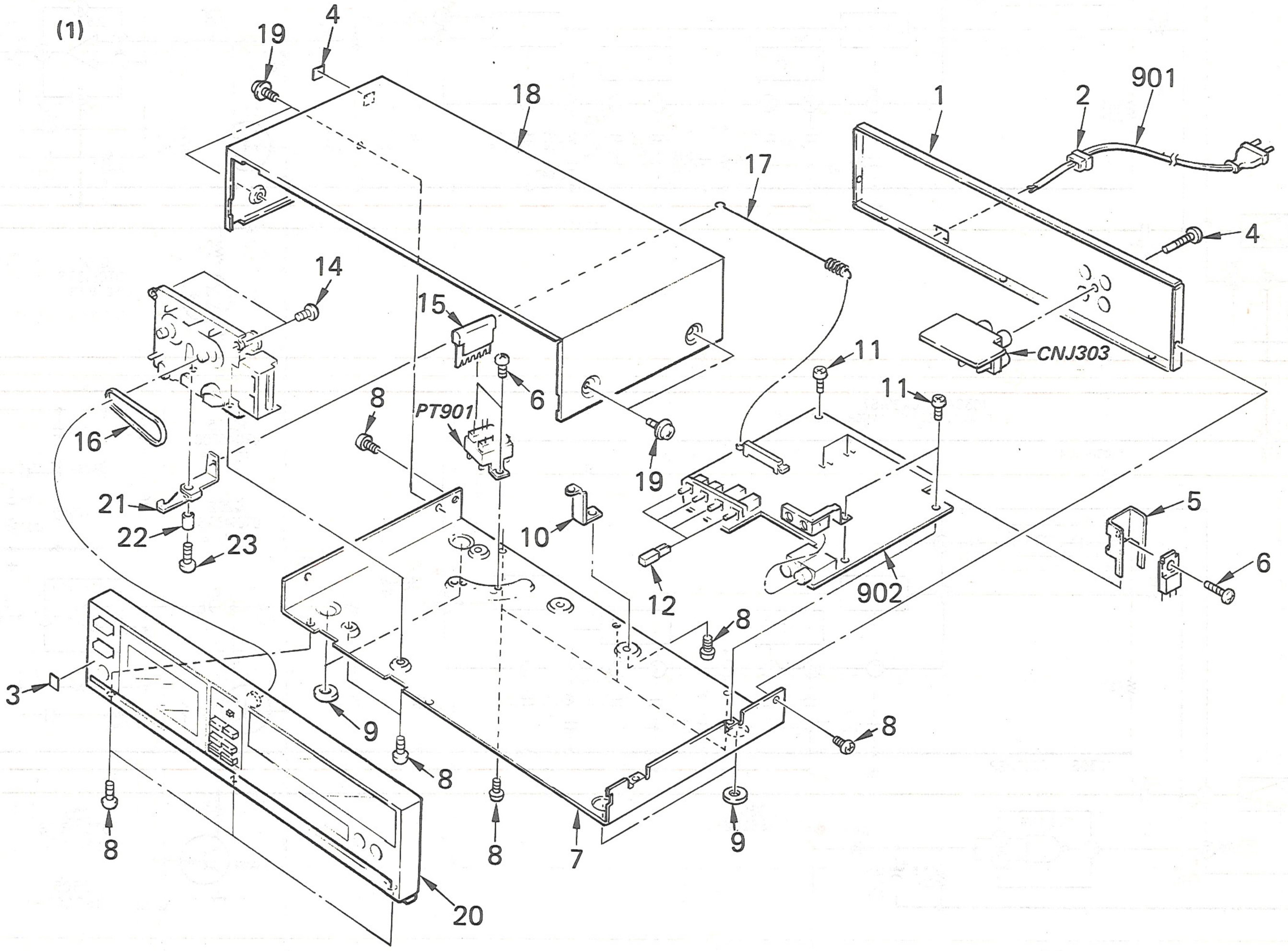
EXPLODED VIEWS AND PARTS LIST

NOTE:

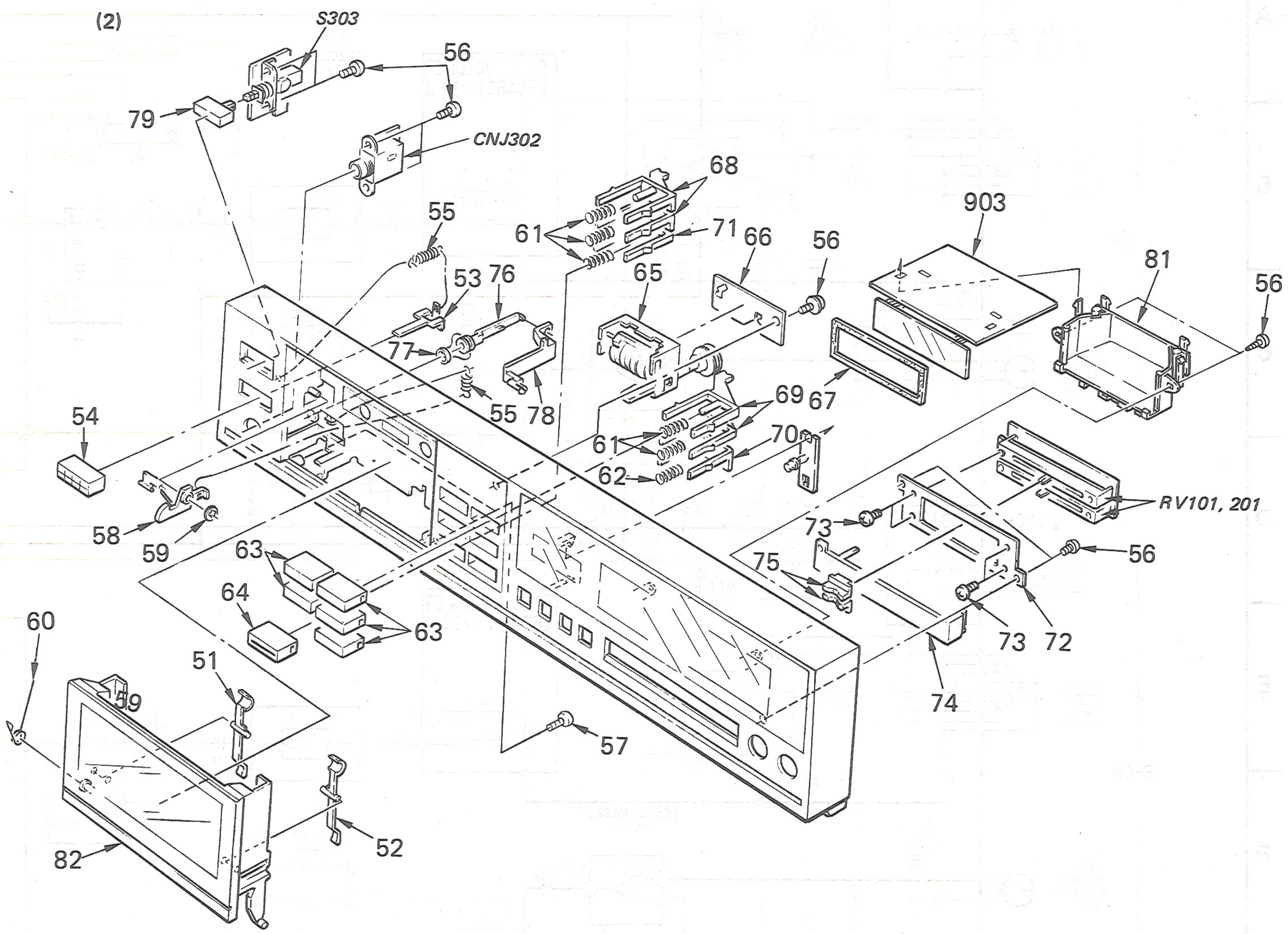
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number on the remark column.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1)

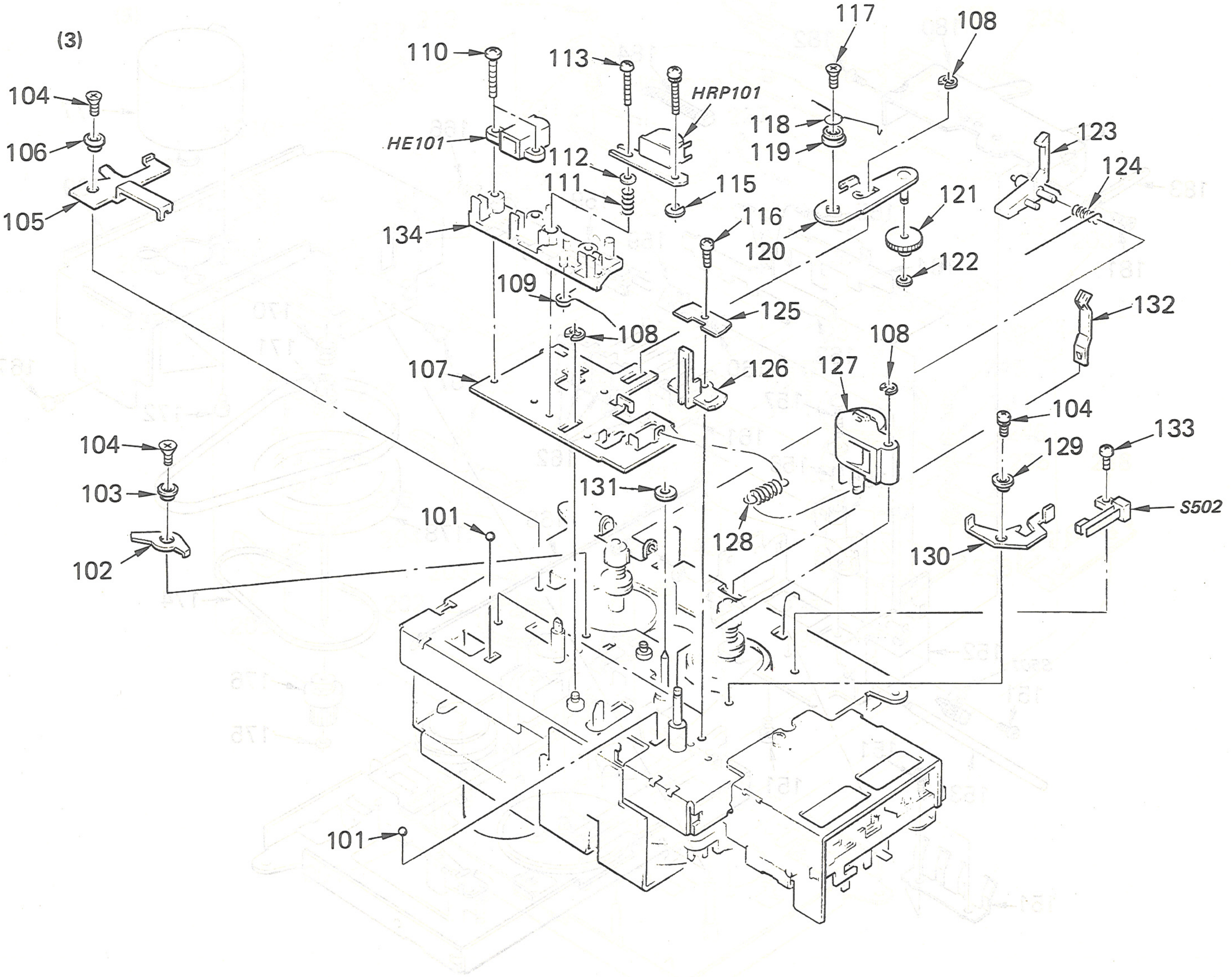


(2)



No.	Part No.	Description	Remarks
1	*3-327-824-01	(TC-FX430:US,Canadian)...PLATE, JACK	
	*3-327-824-11	(TC-FX430:AEP)...........PLATE, JACK	
	*3-327-824-21	(TC-FX430:UK)............PLATE, JACK	
	*3-327-824-31	(TC-FX433:US)............PLATE, JACK	
2	3-703-244-00	(AEP,UK)........BUSHING, CORD	
	3-703-571-00	(US,Canadian)...BUSHING (S)(4516), CORD	
3	3-703-713-41	STICKER, SONY SYMBOL (10)	
4	3-703-680-00	LABEL, CAUTION, SUB, NEW UL	
5	*4-886-555-00	HEAT SINK	
7	*3-318-948-41	CHASSIS	
8	7-685-872-01	SCREW +BVTT 3X8	
9	3-576-731-11	FELT (H)	
10	*3-318-936-11	BRACKET, PC BOARD	
11	3-703-249-01	SCREW, S TIGHT, +PTTWH 3X6	
12	4-855-804-11	KNOB, SQUARE	
13	*3-318-956-01	PLATE, SHIELD	
14	7-685-146-19	SCREW +BVTT 3X6 (S)	
15	*3-332-444-01	COVER, TRANSFORMER SAFETY	
16	3-530-181-XX	BELT, DETCTING	
17	3-318-949-01	SPRING, TENSION	
18	3-318-998-41	CASE	
19	4-886-821-21	SCREW, M3 CASE STOPPER	
20	X-3318-940-2	(TC-FX430:US,Canadian)..FRONT PANEL, ASSY	
	X-3318-941-2	(AEP,UK)........FRONT PANEL, ASSY	
	X-3318-942-2	(TC-FX433:US)...FRONT PANEL, ASSY	
21	*3-318-935-01	LEVER, REC	
22	*3-318-942-01	SPACER, REC LEVER	
23	7-685-873-01	SCREW +BVTT 3X10 (S)	
901	⚠.1-534-817-XX	(AEP).....CORD, POWER, EURO PLUG	
	⚠.1-551-628-00	(US,Canadian)...CORD, POWER	
	⚠.1-556-562-11	(UK)...........CORD, POWER	
902	*A-2056-331-A	PC BOARD ASSY, AUDIO	
PT901	⚠.1-448-489-11	(US,Canadian)...TRANSFORMER, POWER	
PT901	⚠.1-448-491-11	(AEP,UK)........TRANSFORMER, POWER	
51	3-307-371-00	SPRING (LEFT)	
52	3-307-372-00	SPRING (RIGHT)	
53	3-313-203-00	PLATE, SLIDE	
54	3-304-419-31	BUTTON, EJECT	
55	3-540-244-00	SPRING, TENSION	
56	7-685-146-19	SCREW +BVTT 3X6 (S)	
57	7-687-245-11	SCREW +PTPWH 3×6	
58	*3-318-953-01	LEVER, LOCK	
59	7-624-190-11	STOP RING 3, TYPE-CS	
60	3-318-954-01	SPRING	
61	3-570-064-00	SPRING, COMPRESSION	
62	4-858-582-00	SPRING, COMPRESSION	
63	3-318-950-01	(TC-FX430)...BUTTON (A), CONTROL	
	3-318-950-21	(TC-FX433)...BUTTON (A), CONTROL	
64	3-318-950-11	(TC-FX430)...BUTTON (A), CONTROL	
	3-318-950-31	(TC-FX433)...BUTTON (A), CONTROL	
65	1-548-589-11	COUNTER, TAPE (MIDDLE TYPE)	
66	*3-327-821-01	BRACKET, COUNTER	
67	*3-332-449-01	CUSHION, DISPLAY	
68	*3-318-931-01	LEVER (A), BUTTON	
69	*3-318-932-01	LEVER (B), BUTTON	
70	*3-318-933-01	LEVER (C), BUTTON	
71	*3-318-934-01	LEVER (D), BUTTON	
72	*3-327-820-01	BRACKET (2), VOLUME	
73	7-621-255-15	SCREW +P 2X3	
74	3-327-826-11	PLATE, ORNAMENTAL, VOLUME	
75	3-313-213-31	BUTTON, REC CONTROL	
76	3-312-458-03	PISTON (A)	
77	3-312-441-00	RING, PISTON	
78	3-318-952-01	LEVER, EJECT	
79	3-332-417-11	KNOB (POWER), PUSH	
81	*3-332-423-01	HOUSE, LAMP	
82	A-2173-013-A	HOLDER ASSY, CASSETTE	
903	*1-618-741-11	PC BOARD, LCD LEVEL METER	
CNJ302	1-507-797-21	JACK, LARGE TYPE (HEAD PHONES)	
S303	1-570-103-11	SWITCH, PUSH (POWER)	

(3)


104
106
105
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HE101
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HRP101
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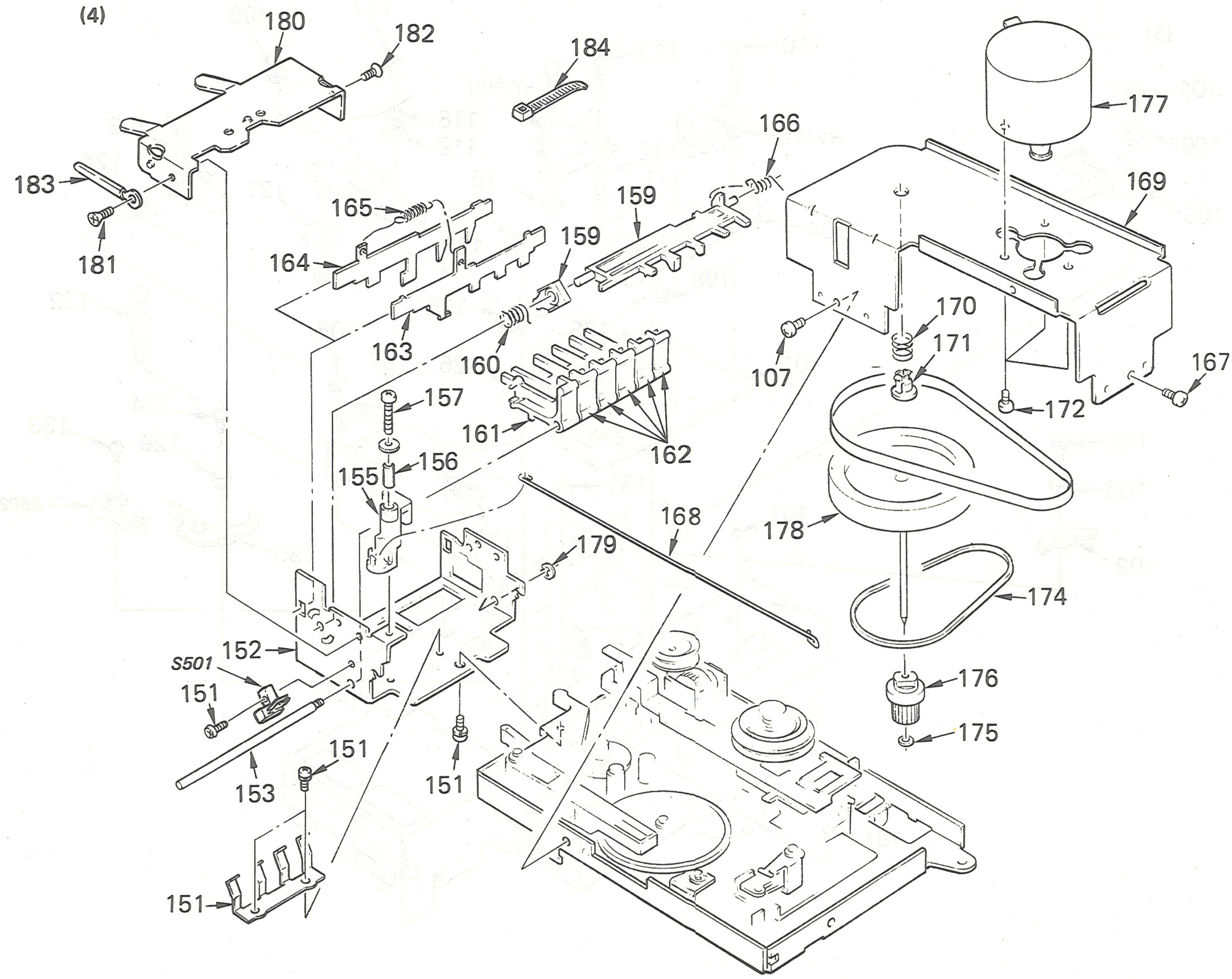
128
129
130
S502
101

No.	Part No.	Description	Remarks
101	7-671-113-02	STEAL, BALL 3	
102	3-596-158-01	SHIFT (8A), BRAKE	
103	3-596-185-01	COLLAR (2.6X4.5X1.1)	
104	3-390-919-01	SCREW	
105	*3-390-918-01	LEVER	
106	3-596-186-01	COLLAR (2.6X4.0X1.1)	
107	3-596-181-01	PANEL (80A-EGC), HEAD	
108	3-596-172-01	RING, E	
109	3-390-921-01	SPRING	
110	7-621-772-70	SCREW +B 2X14	
111	3-596-117-01	SPRING	
112	3-596-169-01	FW (2.2X6.0X0.4)	
113	3-596-165-01	BIND, +- 2X14	
114	7-621-255-85	SCREW +P 2X14	
115	3-596-173-01	WASHER (0.10), HEAD	
116	3-596-167-01	SCREW (2.6X6.5)	
117	7-627-452-38	SCREW, PRECISION +K 2X5	
118	3-596-178-01	SP, TAKE-UP (80A)	
119	3-596-145-01	COLLAR, TAKE-UP (80A)	
120	X-3596-110-1	TAKE-UP ASSY (80A)	
121	3-390-921-01	GEAR, TAKE-UP (8B)	
122	3-596-177-01	LMW (1.7X3.2X0.25)	
123	3-596-125-01	SENSOR (8A), REC	
124	3-596-119-01	SPRING	
125	3-596-147-01	RETAINER (9D), PANEL	
126	3-596-121-01	GUIDE (9A), CASSETTE	
127	X-3596-101-1	PINCH ROLLER ASSY (8A)	
128	3-596-103-01	SPRING	
129	3-390-920-01	COLLAR (2.6X4.0X0.9)	
130	*3-596-179-01	ARM, PLAY SW	
131	3-596-146-01	NLW (2.4X6.0X0.50)	
132	3-596-151-01	PLATE (8A), SP, PACK RETAINER	
133	7-685-791-04	SCREW +PTT 2.6X5 (S)	
134	3-596-123-01	HEAD BASE	
HRP101	8-825-510-30	HEAD (PP271-3602A)	
S502	1-570-682-11	SWITCH, LEAF (HEAD)	

(4)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182
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S501
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151

No.	Part No.	Description	Remarks
151	7-621-770-87	SCREW +P 2.6X5	
152	*3-390-901-01	FRAME (80A-EGC), PUSH BUTTON	
153	*3-390-915-01	SHAFT, LEVER KEY (8B)	
154	3-390-913-01	SP PLATE, LEVER KEY (8C)	
155	3-390-906-01	LEVER, REC CONTROL (8A)	
156	3-390-914-01	COLLAR, REC CONTROL (8A)	
157	3-596-168-01	BIND	
158	3-390-905-01	PLATE (8A), FUNCTION	
159	3-390-904-01	CAM (8A), PAUSE	
160	3-390-910-01	CAM (8B), SP PAUSE	
161	3-390-907-01	LEVER, PAUSE KEY (8A)	
162	3-390-908-01	LEVER, KEY (8C)	
163	*3-390-903-01	ARM	
164	*3-390-902-01	ARM	
165	3-390-912-01	SPRING	
166	3-390-911-01	PLATE (8B), FUNCTION, SP	
167	7-685-791-04	SCREW +PTT 2.6X5 (S)	
168	3-390-909-01	REC, JOINT (8A)	
169	*3-596-189-01	RETAINER, FLYWHEEL (80A-EGC)	
170	3-596-101-01	RETAINER (SP) (9A), CAPSTAN	
171	3-596-122-01	RETAINER (9A), CAPSTAN	
172	3-596-166-01	SCREW (2.6X2.5)	
173	3-596-184-01	BELT (60X4.5X0.5-68C), FLAT	
174	3-596-183-01	BELT (1.3X50-68C), SQUARE	
175	3-596-171-01	PSW (2.6X4.7X0.25)	
176	3-596-133-01	GEAR, CAPSTAN (8A)	
177	X-3596-112-1	MOTOR ASSY	
178	X-3596-105-1	FYWHEEL ASSY	
179	7-624-104-04	STOP RING 2.0, TYPE -E	
180	3-390-924-01	BRACKET, AMS (8RA)	
181	3-390-919-01	SCREW	
182	7-621-559-20	SCREW +K 2.6X4	
183	*3-596-198-01	CLIP	
184	*3-683-631-01	CLAMP	
S501	1-570-683-11	SWITCH, LEAF (REC)	

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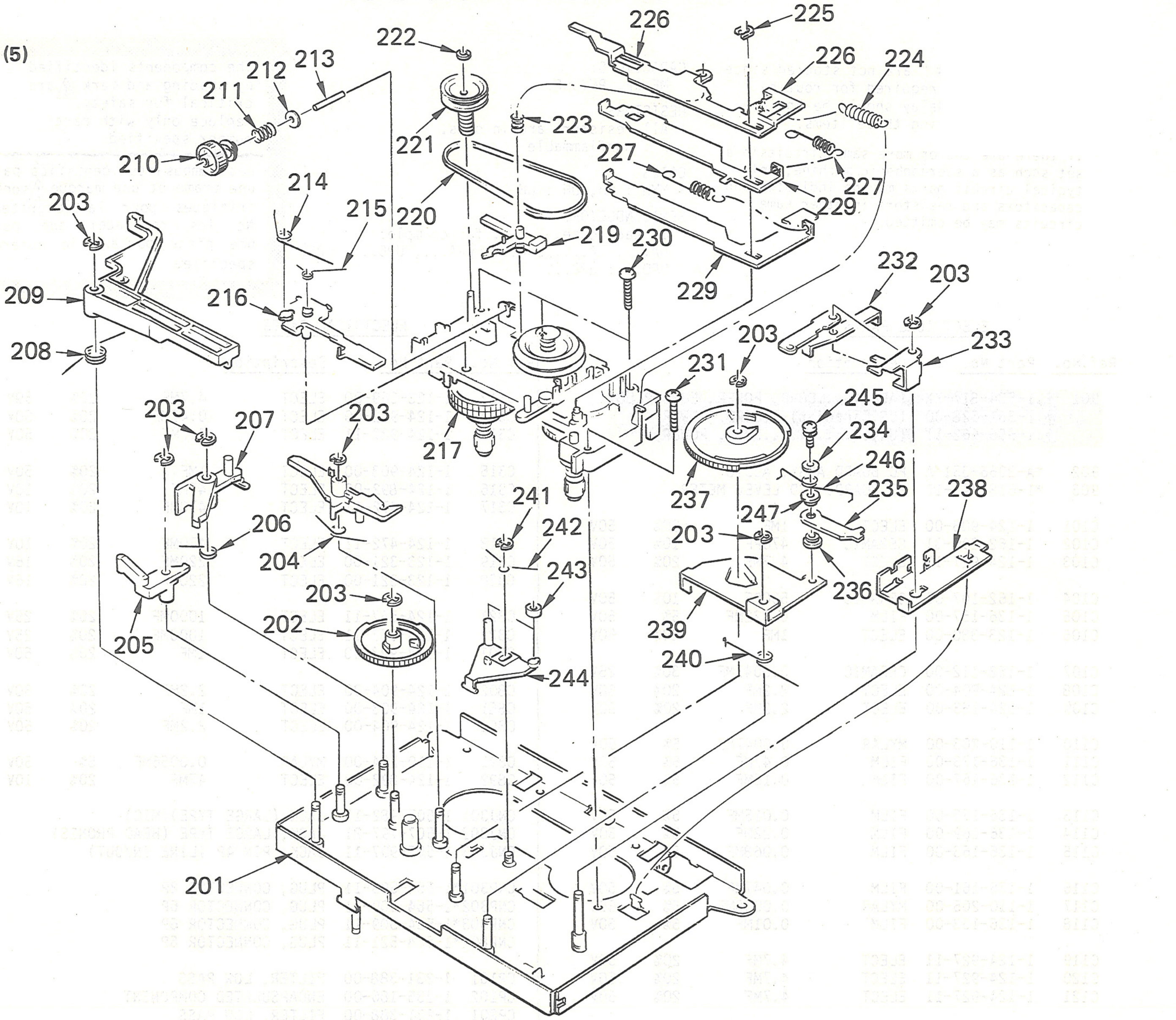
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No.	Part No.	Description	Remarks
201	*X-3596-111-1	RIVETING ASSY (80A), CHASSIS	
202	3-596-136-01	GEAR, RF DRIVE (8B)	
203	3-596-172-01	RING, E	
204	3-596-105-01	SPRING	
205	3-596-128-01	LEVER, PAUSE TRIGGER (8A)	
206	3-596-106-01	SPRING	
207	3-596-182-01	LEVER, RF TRIGGER (8A)	
208	3-596-107-01	SPRING	
209	3-390-923-01	LEVER, RP TRIGGER (8A)	
210	X-3596-102-1	WORM ASSY (8RA), AUTO, GEAR	
211	3-596-115-01	SPRING	
212	3-596-176-01	PSW (2.0X8.0X0.25)	
213	3-596-144-01	SHAFT	
214	3-596-110-01	SPRING	
215	3-596-109-01	SPRING	
216	3-596-132-01	ARM, CANCEL (8A)	
217	X-3596-109-1	BASE ASSY (80A), REEL TABLE	
218	3-596-127-01	LEVER, RUTURN (8A)	
219	3-596-131-01	ARM, AUTO (8A)	
220	3-596-180-01	BELT (1.0X40-60C), SQUARE	
221	3-596-138-01	GEAR, RELAY PULLEY (8RA)	
222	3-701-436-11	WASHER, 1.6	
223	3-596-114-01	SPRING	
224	3-596-112-01	SPRING	
225	7-624-193-09	STOP RING (2.5) GRIP	
226	*3-596-153-01	LEVER, AUTO (8A)	
227	3-596-111-01	SPRING	
228	*3-596-156-01	LEVER, REW (8B)	
229	*3-596-155-01	LEVER, FF (8B)	
230	3-596-168-01	BIND	
231	7-621-259-65	SCREW +P 2.6X10	
232	*3-596-149-01	ARM, RP SWITCH (8A)	
233	*3-596-150-01	ARM, RP SHIFT (8A)	
234	3-596-170-01	FW (2.8X7.5X0.5)	
235	*3-596-154-01	LEVER, RP SELECT (8B)	
236	3-596-143-01	COLLAR, RP SELECT (8A)	
237	3-596-137-01	GEAR, DRIVE (8B)	
238	*3-596-188-01	LEVER, REC (80A)	
239	*3-596-190-01	ARM, PLAY (80A-EGC)	
240	3-390-916-01	SP, ARM PLAY (80A)	
241	7-624-104-04	STOP RING 2.0, TYPE -E	
242	3-596-104-01	SPRING	
243	3-596-135-01	RUBBER, BRAKE	
244	3-596-126-01	ARM, BRAKE (8A)	
245	7-685-791-04	SCREW +PTT 2.6X5 (S)	
246	3-596-196-01	SELECT (80A), SP.PR	
247	3-596-197-01	SELECT, COLLAR RP (80A)	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC,
UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	⚠.1-534-817-XX	(AEP).....CORD, POWER, EURO PLUG			
	⚠.1-551-628-00	(US,Canadian)...CORD, POWER			
	⚠.1-556-562-11	(UK)...........CORD, POWER			
902	*A-2056-331-A	PC BOARD ASSY, AUDIO			
903	*1-618-741-11	PC BOARD, LCD LEVEL METER			
C101	1-124-903-00	ELECT	1MF	20%	50V
C102	1-162-290-31	CERAMIC	470PF	10%	50V
C103	1-124-927-11	ELECT	4.7MF	20%	50V
C104	1-162-107-00	CERAMIC	560PF	10%	50V
C105	1-136-157-00	FILM	0.022MF	5%	50V
C106	1-123-380-00	ELECT	1MF	20%	50V
C107	1-162-112-00	CERAMIC	0.0047MF	30%	25V
C108	1-124-904-00	ELECT	2.2MF	20%	50V
C109	1-124-183-00	ELECT	2.2MF	20%	50V
C110	1-110-203-00	MYLAR	0.0047MF	5%	50V
C111	1-136-173-00	FILM	0.47MF	5%	50V
C112	1-136-167-00	FILM	0.15MF	5%	50V
C113	1-136-155-00	FILM	0.015MF	5%	50V
C114	1-136-169-00	FILM	0.22MF	5%	50V
C115	1-136-163-00	FILM	0.068MF	5%	50V
C116	1-136-161-00	FILM	0.047MF	5%	50V
C117	1-110-205-00	MYLAR	0.0068MF	5%	50V
C118	1-136-153-00	FILM	0.01MF	5%	50V
C119	1-124-927-11	ELECT	4.7MF	20%	50V
C120	1-124-927-11	ELECT	4.7MF	20%	50V
C121	1-124-927-11	ELECT	4.7MF	20%	50V
C122	1-124-927-11	ELECT	4.7MF	20%	50V
C123	1-110-206-00	MYLAR	0.0082MF	5%	50V
C125	1-110-205-00	MYLAR	0.0068MF	5%	50V
C126	1-136-153-00	FILM	0.01MF	5%	50V
C128	1-136-273-91	FILM	75PF	5%	630V
C129	1-162-105-00	CERAMIC	390PF	10%	50V
C130	1-136-165-00	FILM	0.1MF	5%	50V
C131	1-110-201-00	MYLAR	0.0033MF	5%	50V
C301	1-161-494-00	CERAMIC	0.022MF	30%	25V
C302	1-124-443-00	ELECT	100MF	20%	10V
C303	1-124-443-00	ELECT	100MF	20%	10V
C304	1-124-443-00	ELECT	100MF	20%	10V
C305	1-124-443-00	ELECT	100MF	20%	10V
C307	1-129-713-00	FILM	0.0082MF	10%	630V
C308	1-130-295-00	FILM	0.0082MF	5%	100V
C309	1-130-287-00	FILM	0.0039MF	5%	100V
C310	1-130-287-00	FILM	0.0039MF	5%	100V
C311	1-123-369-00	ELECT	4.7MF	20%	50V
C312	1-123-369-00	ELECT	4.7MF	20%	50V
C313	1-124-902-00	ELECT	0.47MF	20%	50V
C314	1-124-927-11	ELECT	4.7MF	20%	50V
C315	1-124-903-00	ELECT	1MF	20%	50V
C316	1-124-892-00	ELECT	47MF	20%	10V
C317	1-124-472-11	ELECT	470MF	20%	10V
C318	1-124-472-11	ELECT	470MF	20%	10V
C319	1-123-321-00	ELECT	220MF	20%	16V
C320	1-123-321-00	ELECT	220MF	20%	16V
C321	1-124-557-11	ELECT	1000MF	20%	25V
C322	1-124-557-11	ELECT	1000MF	20%	25V
C801	1-124-903-00	ELECT	1MF	20%	50V
C802	1-124-904-00	ELECT	2.2MF	20%	50V
C851	1-124-903-00	ELECT	1MF	20%	50V
C852	1-124-904-00	ELECT	2.2MF	20%	50V
C891	1-110-204-00	MYLAR	0.0056MF	5%	50V
C892	1-124-892-00	ELECT	47MF	20%	10V
CNJ301	1-507-982-11	JACK (LARGE TYPE)(MIC)			
CNJ302	1-507-797-21	JACK, LARGE TYPE (HEAD PHONES)			
CNJ303	1-507-907-11	JACK, PIN 4P (LINE IN/OUT)			
CNP301	*1-564-505-11	PLUG, CONNECTOR 2P			
CNP302	*1-564-509-11	PLUG, CONNECTOR 6P			
CNP303	*1-564-509-11	PLUG, CONNECTOR 6P			
CNP801	*1-564-521-11	PLUG, CONNECTOR 6P			
CP101	1-231-388-00	FILTER, LOW PASS			
CP102	1-235-186-00	ENCAPSULATED COMPONENT			
CP201	1-231-388-00	FILTER, LOW PASS			
CP202	1-235-186-00	ENCAPSULATED COMPONENT			
CT301	1-141-225-00	CAP, TUNING, TRIMAR			
D300	8-719-910-61	DIODE HZS6A1L			
D301	8-719-107-94	DIODE 1SS202-1			
D302	8-719-107-94	DIODE 1SS202-1			
D303	8-719-107-94	DIODE 1SS202-1			
D304	8-719-107-94	DIODE 1SS202-1			
D305	8-719-107-94	DIODE 1SS202-1			
D306	8-719-101-47	DIODE RD4.7EL2			
D307	8-719-200-77	DIODE 10E2N			
D308	8-719-200-77	DIODE 10E2N			
D309	8-719-200-77	DIODE 10E2N			
D310	8-719-200-77	DIODE 10E2N			
D311	8-719-302-74	DIODE SEL2210W-L			
HRP101	8-825-510-30	HEAD (PP271-3602A)			
IC301	8-759-600-02	IC M5218L			
IC302	8-759-600-02	IC M5218L			
IC303	8-759-602-01	IC M5220P			

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
IC304	8-752-018-70	IC CX20187			
IC305	8-759-106-41	IC UPC4570C			
IC306	8-759-240-11	IC TC4011BP			
IC801	8-752-321-65	IC CXD1017Q			
L101	1-408-924-00	MICRO INDUCTOR 10MMH			
L102	1-408-929-00	MICRO INDUCTOR 27MMH			
L201	1-408-924-00	MICRO INDUCTOR 10MMH			
L202	1-408-929-00	MICRO INDUCTOR 27MMH			
LCD801	1-520-488-11	METER, LEVEL			
PL801	1-518-596-11	LAMP, PILOT			
PL802	1-518-596-11	LAMP, PILOT			
PT901⚠	1-448-489-11	(US,Canadian)...TRANSFORMER, POWER			
PT901⚠	1-448-491-11	(AEP,UK)........TRANSFORMER, POWER			
Q101	8-729-900-74	TRANSISTOR DTC143TS			
Q102	8-729-900-74	TRANSISTOR DTC143TS			
Q201	8-729-900-74	TRANSISTOR DTC143TS			
Q202	8-729-900-74	TRANSISTOR DTC143TS			
Q301	8-729-600-28	TRANSISTOR 2SC634SP-8			
Q302	8-729-600-28	TRANSISTOR 2SC634SP-8			
Q303	8-729-606-33	TRANSISTOR 2SC2603F			
Q304	8-729-111-54	TRANSISTOR 2SA1175			
Q305	8-729-111-54	TRANSISTOR 2SA1175			
Q306	8-729-107-25	TRANSISTOR 2SD1585-L			
Q307	8-729-606-33	TRANSISTOR 2SC2603F			
Q308	8-729-111-67	TRANSISTOR 2SB1094-L			
Q309	8-729-117-54	TRANSISTOR 2SA1175			
Q310	8-729-606-33	TRANSISTOR 2SC2603F			
Q311	8-729-117-54	TRANSISTOR 2SA1175			
R101	1-247-167-00	CARBON	33K	5%	1/4W
R102	1-249-429-11	CARBON	10K	5%	1/6W
R103	1-247-821-00	CARBON	390	5%	1/6W
R104	1-247-867-00	CARBON	33K	5%	1/6W
R105	1-249-421-11	CARBON	2.2K	5%	1/6W
R106	1-247-799-00	CARBON	47	5%	1/6W
R108	1-247-831-00	CARBON	1K	5%	1/6W
R109	1-247-857-00	CARBON	12K	5%	1/6W
R110	1-247-853-00	CARBON	8.2K	5%	1/6W
R111	1-247-815-00	CARBON	220	5%	1/6W
R113	1-249-433-11	CARBON	22K	5%	1/6W
R114	1-247-887-00	CARBON	220K	5%	1/6W
R115	1-247-807-00	CARBON	100	5%	1/6W
R116	1-247-882-00	CARBON	130K	5%	1/6W
R117	1-247-849-00	CARBON	5.6K	5%	1/6W
R118	1-247-857-00	CARBON	12K	5%	1/6W
R119	1-247-859-00	CARBON	15K	5%	1/6W
R120	1-247-887-00	CARBON	220K	5%	1/6W
R121	1-247-719-11	CARBON	3.3K	5%	1/4W
R122	1-247-151-00	CARBON	6.8K	5%	1/4W
R124	1-246-488-00	CARBON	4.3K	5%	1/4W
R125	1-247-718-11	CARBON	2.7K	5%	1/4W
R126	1-247-822-00	CARBON	430	5%	1/6W
R127	1-247-851-00	CARBON	6.8K	5%	1/6W
R128	1-247-827-00	CARBON	680	5%	1/6W
R129	1-249-429-11	CARBON	10K	5%	1/6W
R130	1-249-421-11	CARBON	2.2K	5%	1/6W
R131	1-249-429-11	CARBON	10K	5%	1/6W
R133	1-247-879-00	CARBON	100K	5%	1/6W
R134	1-249-437-11	CARBON	47K	5%	1/6W
R135	1-247-114-00	CARBON	200	5%	1/4W
R136	1-247-841-00	CARBON	2.7K	5%	1/6W
R137	1-247-845-00	CARBON	3.9K	5%	1/6W
R138	1-247-859-00	CARBON	15K	5%	1/6W
R139	1-247-835-00	CARBON	1.5K	5%	1/6W
R140	1-247-846-00	CARBON	4.3K	5%	1/6W
R141	1-249-459-11	CARBON	12K	5%	1/4W
R142	1-249-434-11	CARBON	27K	5%	1/6W
R143	1-247-713-11	CARBON	1K	5%	1/4W
R144	1-247-713-11	CARBON	1K	5%	1/4W
R300	1-247-713-11	CARBON	1K	5%	1/4W
R303	1-247-708-11	CARBON	470	5%	1/4W
R304	1-247-708-11	CARBON	470	5%	1/4W
R305	1-249-433-11	CARBON	22K	5%	1/6W
R306	1-249-433-11	CARBON	22K	5%	1/6W
R307	1-247-688-11	CARBON	10	5%	1/4W
R308	1-249-433-11	CARBON	22K	5%	1/6W
R309	1-249-433-11	CARBON	22K	5%	1/6W
R310	1-249-429-11	CARBON	10K	5%	1/6W
R311	1-247-854-00	CARBON	9.1K	5%	1/6W
R312	1-247-846-00	CARBON	4.3K	5%	1/6W
R313	1-247-821-00	CARBON	390	5%	1/6W
R314	1-249-421-11	CARBON	2.2K	5%	1/6W
R315	1-249-433-11	CARBON	22K	5%	1/6W
R317	1-249-433-11	CARBON	22K	5%	1/6W
R318	1-247-708-11	CARBON	470	5%	1/4W
R319	1-249-421-11	CARBON	2.2K	5%	1/6W
R320	1-247-857-00	CARBON	12K	5%	1/6W
R321	1-249-433-11	CARBON	22K	5%	1/6W
R322	1-249-433-11	CARBON	22K	5%	1/6W
R324	1-247-879-00	CARBON	100K	5%	1/6W
R325	1-215-469-00	METAL	100K	1%	1/6W
R326	1-247-717-11	CARBON	2.2K	5%	1/4W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R327	1-247-713-11	CARBON 1K 5% 1/4W
R328	1-247-713-11	CARBON 1K 5% 1/4W
R331	1-247-719-11	CARBON 3.3K 5% 1/4W
R332	1-247-718-11	CARBON 2.7K 5% 1/4W
R333	1-247-713-11	CARBON 1K 5% 1/4W
R334	1-247-708-11	CARBON 470 5% 1/4W
R335	1-247-708-11	CARBON 470 5% 1/4W
R336	1-247-717-11	CARBON 2.2K 5% 1/4W
R801	1-247-872-00	CARBON 51K 5% 1/6W
R802	1-249-437-11	CARBON 47K 5% 1/6W
R803	1-247-903-00	CARBON 1M 5% 1/6W
R851	1-247-872-00	CARBON 51K 5% 1/6W
R852	1-249-437-11	CARBON 47K 5% 1/6W
R853	1-247-903-00	CARBON 1M 5% 1/6W
R891	1-247-893-00	CARBON 390K 5% 1/6W
R893	1-247-815-00	CARBON 220 5% 1/6W
R894	1-247-834-00	CARBON 1.3K 5% 1/6W
R895	1-247-879-00	CARBON 100K 5% 1/6W
RV101	1-237-208-11	RES, VAR, SLIDE 20K (REC VOL)
RV102	1-228-994-00	RES, ADJ, CARBON 10K
RV103	1-228-994-00	RES, ADJ, CARBON 10K
RV201	1-237-208-11	RES, VAR, SLIDE 20K (REC VOL)
RV202	1-228-994-00	RES, ADJ, CARBON 10K
RV203	1-228-994-00	RES, ADJ, CARBON 10K
S301	1-554-033-00	SWITCH, SLISE (REC/PB)
S302	1-570-526-11	SWITCH, PUSH (4 KEY)(DOLBY NR,TAPE)
S303	1-570-103-11	SWITCH, PUSH (1 KEY)(POWER)
S501	1-570-683-11	SWITCH, LEAF (REC)
S502	1-570-682-11	SWITCH, LEAF (HEAD)
T301	1-433-303-11	TRANSFORMER, BIAS OSCILLATION

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-551-734-11	CORD, CONNECTION (RK-74A)
3-318-957-11	(TC-FX430)...INDIVIDUAL CARTON
3-318-957-21	(TC-FX433)...INDIVIDUAL CARTON
3-701-630-00	BAG, POLYETHYLENE
3-703-450-01	INSTRUCTION
3-760-404-11	(Canadian)..........MANUAL, INSTRUCTION
3-765-233-11	(Canadian,AEP,UK)...MANUAL, INSTRUCTION
3-765-233-21	(US)... ...MANUAL, INSTRUCTION
3-765-233-41	(AEP).......MANUAL, INSTRUCTION

Sony Corporation

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